



Open Source Used In Cloud Connectivity - Contextual Content Darwin

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- 1.306 1to2 1.0.0**
- 1.306.1 Available under license

1.307 sparse-bitfield 3.0.3

1.307.1 Available under license

1.308 memory-pager 1.5.0

1.308.1 Available under license

1.309 strip-ansi 5.2.0

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1.311 gtk 3.18.9-1ubuntu3.3

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1.312 atk 2.18.1-2ubuntu1

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1.313 protobuf 2.6.1-1.3

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1.314 d-conf 0.24.0-2

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1.315 uri-js 4.4.1

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1.316 har-validator 5.1.5

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1.317 jsonwebtoken 8.5.1

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1.319 cliui 5.0.0

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1.320 get-caller-file 2.0.5

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1.321 p-limit 2.3.0

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1.322 sdp-exceptions 2.3.0

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1.323 sdp-correct 3.1.1

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1.324 sdp-expression-parse 3.0.1

1.324.1 Available under license

1.325 iconv 2.28

1.325.1 Available under license

1.326 langpacks 1.0-12.el8

1.326.1 Available under license
1.327 librest 0.7.93-1
1.327.1 Available under license
1.328 libsvg 2.40.13-3
1.328.1 Available under license
1.329 libjpeg-turbo 1.4.2-0ubuntu3.3
1.329.1 Available under license
1.330 libproxy 0.4.11-5ubuntu1
1.330.1 Available under license
1.331 lodash 4.17.21
1.331.1 Available under license
1.332 aws4 1.11.0
1.332.1 Available under license
1.333 ms 2.1.3
1.333.1 Available under license
1.334 openssl 1.1.1k-r0
1.334.1 Notifications
1.334.2 Available under license
1.335 libnsl 1.2.0-2.20180605git4a062cf.el8
1.335.1 Available under license
1.336 bridgeutils 1.7.1
1.336.1 Available under license
1.337 clean-stack 2.2.0
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1.338 rimraf 3.0.2
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1.343 chownr 2.0.0
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1.344 is-number 7.0.0
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1.345 configstore 3.1.5

- 1.345.1 Available under license
- 1.346 bin-links 1.1.8**
 - 1.346.1 Available under license
- 1.347 dot-prop 4.2.1**
 - 1.347.1 Available under license
- 1.348 opener 1.5.2**
 - 1.348.1 Available under license
- 1.349 npm-user-validate 1.0.1**
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- 1.350 env-paths 2.2.1**
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- 1.351 fastest-levenshtein 1.0.12**
 - 1.351.1 Available under license
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- 1.353 figgy-pudding 3.5.2**
 - 1.353.1 Available under license
- 1.354 agent-base 6.0.2**
 - 1.354.1 Available under license
- 1.355 json-parse-even-better-errors 2.3.1**
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- 1.356 uuid 8.3.2**
 - 1.356.1 Available under license
- 1.357 request-promise 4.2.6**
 - 1.357.1 Available under license
- 1.358 query-string 6.14.1**
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- 1.359 doctrine 3.0.0**
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- 1.360 filter-obj 1.1.0**
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- 1.361 argparse 2.0.1**
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- 1.362 aggregate-error 3.1.0**
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- 1.363 saslprep 1.0.3**
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- 1.364 bl 2.2.1**
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1.365 bson 1.1.6

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1.366 dtrace-provider 0.8.8

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1.367 bunyan 1.8.15

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1.368 nopt 5.0.0

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1.372 adduser 3.118ubuntu5

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1.373 proxy-from-env 1.1.0

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1.374 jsbn 1.1.0

1.374.1 Available under license

1.375 ws 7.4.6

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1.376 musl 1.2.2-r3

1.376.1 Available under license

1.377 apk-tools 2.12.5-r1

1.377.1 Available under license

1.378 base64-arraybuffer 0.1.4

1.378.1 Available under license

1.379 base64id 2.0.0

1.379.1 Available under license

1.380 forwarded 0.2.0

1.380.1 Available under license

1.381 promise-all-reject-late 1.0.1

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1.382 is-cidr 4.0.2

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1.383 minipass-sized 1.0.3

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1.384 promise-call-limit 1.0.1

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1.385 walk-up-path 1.0.0

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1.386 @npmcli/name-from-folder 1.0.1

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1.387 common-ancestor-path 1.0.1

1.387.1 Available under license

1.388 cidr-regex 3.1.1

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1.389 mkdirp-infer-owner 2.0.0

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1.390 minipass-json-stream 1.0.1

1.390.1 Available under license

1.391 is-lambda 1.0.1

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1.392 promise-retry 2.0.1

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1.393 err-code 2.0.3

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1.394 popt 1.18-1.el8

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1.395 brotli 1.0.6-3.el8

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1.396 hosted-git-info 2.8.9

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1.397 icu 69

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1.398 pax-utils 1.3.2-r0

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1.399 alpine-baselayout 3.2.0-r15

1.399.1 Available under license

1.400 busybox 1.33.1-r2

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1.401 libretls 3.3.3-r0

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1.402 alpine-keys 2.3-r1

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1.403 config-chain 1.1.13

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1.404 scanelf 1.3.2-r0

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1.405 musl-utils 1.2.2-r3

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1.406 libretls 3.3.3-r2

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1.407 lz4 1.8.3-3.el8_4

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1.408 alpine-baselayout 3.2.0-r16

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1.409 socket.io-adapter 2.1.0

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1.410 apk-tools 2.12.7-r0

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1.411 npm-bundled 1.1.2

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1.412 iconv-lite 0.6.3

1.412.1 Available under license

1.413 ip-regex 4.3.0

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1.414 json-stringify-nice 1.1.4

1.414.1 Available under license

1.415 require-at 1.0.6

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1.416 libretls 3.3.3p1-r2

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1.417 colors.js 1.3.3

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1.418 json-stream 1.3.5

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1.419 npmcli-installed-package-contents 1.0.7

1.419.1 Available under license

1.420 openssl 1.1.1l-r0

1.420.1 Notifications

1.420.2 Available under license

1.421 libxtst 1.2.2-1

1.421.1 Available under license

1.422 tar 6.1.11

1.422.1 Available under license

1.423 connect 3.7.0

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1.424 read-package-json 2.1.2

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1.425 smart-buffer 4.2.0

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1.426 read-package-json-fast 2.0.3

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1.427 bufferutil 4.0.1

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1.428 http-proxy-middleware 1.3.1

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1.429 is-plain-obj 3.0.0

1.429.1 Available under license

1.430 node-gyp-build 3.7.0

1.430.1 Available under license

1.431 node-gp 1.12.5

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1.432 utf-8-validate 5.0.2

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1.433 engine.io-parser 4.0.3

1.433.1 Available under license

1.434 optional-require 1.1.8

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1.435 berkeley-db 5.3.28-42.el8_4

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1.436 afero 1.0.5

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1.437 alpine-keys 2.4-r0

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1.438 date 0.3.3

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1.439 cron-parser 3.5.0

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1.440 devtools-protocol 0.0.901419

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1.441 human-interval 2.0.1

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1.442 numbered 1.1.0

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- 1.443 os 0.1.2**
- 1.443.1 Available under license
- 1.444 swagger-model-validator 3.0.21**
- 1.444.1 Available under license
- 1.445 unbzip2-stream 1.3.3**
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- 1.446 yaml 2.0.0-1**
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- 1.447 wide-align 1.1.5**
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- 1.448 cli-columns 4.0.0**
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- 1.449 v8 9.9.9.9**
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- 1.450 asn1 0.2.6**
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- 1.451 busybox 1.33.1-r6**
- 1.451.1 Available under license
- 1.452 spdx-license-ids 3.0.11**
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- 1.453 commander 6.2.0**
- 1.453.1 Available under license
- 1.454 types-cookie 0.4.1**
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- 1.455 ubuntu-keyring 2021.03.26**
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- 1.456 amqplib 0.7.1**
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- 1.457 whatwg-url 11.0.0**
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- 1.458 tr46 3.0.0**
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- 1.459 json-schema 0.4.0**
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- 1.460 libaom 3.1.1-405-gaba245dde**
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- 1.461 jsprim 1.4.2**
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- 1.462 libnettle6 3.4.1-7.el8**
 - 1.462.1 Available under license
- 1.463 lua 5.3.4-12.el8**
 - 1.463.1 Available under license
- 1.464 pcre 8.42-6.el8**
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- 1.465 libsepol 2.9-3.el8**
 - 1.465.1 Available under license
- 1.466 ms 2.1.1**
 - 1.466.1 Available under license
- 1.467 p-finally 1.0.0**
 - 1.467.1 Available under license
- 1.468 rc 1.2.8**
 - 1.468.1 Available under license
- 1.469 strip-json-comments 2.0.1**
 - 1.469.1 Available under license
- 1.470 shebang-regex 1.0.0**
 - 1.470.1 Available under license
- 1.471 string_decoder 0.10.31**
 - 1.471.1 Available under license
- 1.472 stealthy-require 1.1.1**
 - 1.472.1 Available under license
- 1.473 npm-run-path 2.0.2**
 - 1.473.1 Available under license
- 1.474 http-proxy 1.18.1**
 - 1.474.1 Available under license
- 1.475 path-key 2.0.1**
 - 1.475.1 Available under license
- 1.476 process-nextick-args 2.0.0**
 - 1.476.1 Available under license
- 1.477 requires-port 1.0.0**
 - 1.477.1 Available under license
- 1.478 is-obj 1.0.1**
 - 1.478.1 Available under license
- 1.479 isarray 0.0.1**
 - 1.479.1 Available under license
- 1.480 which-module 2.0.0**
 - 1.480.1 Available under license
- 1.481 require-directory 2.1.1**

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1.482 require-main-filename 2.0.0
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1.483 strip-eof 1.0.0
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1.484 yallist 3.0.3
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1.486 signal-exit 3.0.2
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1.487 is-stream 1.1.0
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1.489 shebang-command 1.2.0
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1.490 ini 1.3.8
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1.491 readable-stream 2.3.6
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1.492 path-is-inside 1.0.2
1.492.1 Available under license
1.493 prr 1.0.1
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1.494 npm-bundled 1.1.1
1.494.1 Available under license
1.495 wrap-ansi 5.1.0
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1.496 path-exists 3.0.0
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1.497 setimmediate 1.0.5
1.497.1 Available under license
1.498 lowercase-keys 1.0.1
1.498.1 Available under license
1.499 string-width 3.1.0
1.499.1 Available under license
1.500 worker-farm 1.7.0
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1.501 p-locate 3.0.0

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1.502 ip-regex 2.1.0

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1.503 y18n 4.0.1

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1.504 locate-path 3.0.0

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1.505 ignore-walk 3.0.3

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1.506 package-json 4.0.1

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1.507 json-schema-traverse 0.3.1

1.507.1 Available under license

1.508 registry-url 3.1.0

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1.509 unique-string 1.0.0

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1.510 cssesc 3.0.0

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1.511 is-symbol 1.0.2

1.511.1 Available under license

1.512 unzip-response 2.0.1

1.512.1 Available under license

1.513 latest-version 3.1.0

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1.514 pseudomap 1.0.2

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1.515 compression 1.7.4

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1.516 xtend 4.0.1

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1.517 is-path-inside 1.0.1

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1.518 prepend-http 1.0.4

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1.519 slide 1.1.6

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1.520 term-size 1.2.0

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1.521 write-file-atomic 2.4.3
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1.522 is-npm 1.0.0
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1.523 has-symbols 1.0.0
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1.524 is-installed-globally 0.1.0
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1.525 yallist 2.1.2
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1.526 is-redirect 1.0.0
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1.527 semver-diff 2.1.0
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1.528 readable-stream 1.1.14
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1.529 url-parse-lax 1.0.0
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1.530 xdg-basedir 3.0.0
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1.531 timed-out 4.0.1
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1.532 widest-line 2.0.1
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1.533 is-ci 1.2.1
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1.536 is-date-object 1.0.1
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1.537 pify 3.0.0
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1.538 lru-cache 4.1.5
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1.539 import-lazy 2.1.0
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1.540 boolbase 1.0.0

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1.541 update-notifier 2.5.0

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1.542 is-callable 1.1.4

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1.543 spdx-expression-parse 3.0.0

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1.544 registry-auth-token 3.4.0

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1.545 jsonfile 6.1.0

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1.546 core-js 2.6.12

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1.547 strict-uri-encode 2.0.0

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1.548 split-on-first 1.1.0

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1.549 request-promise-core 1.1.4

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1.554 mime-db 1.35.0

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1.555 util-promisify 2.1.0

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1.556 uid-number 0.0.6

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1.557 yargs-parser 15.0.1

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1.558 util-extend 1.0.3

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1.559 init-package-json 1.10.3

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1.560 npm-profile 4.0.4
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1.567 npm-pick-manifest 3.0.2
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1.574 spdx-license-ids 3.0.5
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1.578 safe-buffer 5.2.0
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1.579 read-installed 4.0.3

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1.580 resolve 1.10.0

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1.581 stream-iterate 1.2.0

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1.582 iferr 1.0.2

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1.583 mime-types 2.1.19

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1.584 npm-logical-tree 1.2.1

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1.585 nan 1.3.2

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1.586 libnpmhook 5.0.3

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1.587 read-package-tree 5.3.1

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1.588 npm-install-checks 3.0.2

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1.589 sorted-object 2.0.1

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1.592 through2 2.0.3

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1.593 npm-package-arg 6.1.1

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1.594 p-limit 2.2.0

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1.595 unique-slug 2.0.0

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1.596 sorted-union-stream 2.1.3

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1.597 stream-shift 1.0.0

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1.598 object.getownpropertydescriptors 2.0.3

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1.599 safe-json-stringify 1.2.0
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1.600 rimraf 2.4.5
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1.624 end-of-stream 1.4.4

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1.625 bl 4.1.0

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1.626 chalk 4.1.2

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1.628 strip-ansi 6.0.1

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1.630 core-util-is 1.0.3

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1.631 tslib 1.14.1

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1.632 fs 0.0.1-security

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1.633 tar-stream 2.2.0

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1.634 path 0.12.7

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1.635 libcap-ng 0.7.11-1.el8

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1.636 extract-zip 2.0.1

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1.637 qs 6.5.3

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- 1.657 url-parse 1.5.10**
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- 1.658 npm-audit-report 1.3.3**
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- 1.663 cyrus-sasl 2.1.27-6.el8_5**
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- 1.664 brace-expansion 2.0.1**
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- 1.666 npmcli-ci-detect 2.0.0**
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- 1.783 @npmcli/metavuln-calculator 3.1.1**
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- 1.815 unique-filename 2.0.1**
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- 1.817 npm-normalize-package 2.0.0**
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- 1.819 libpwquality 1.4.4-1build2**
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1.941 domutils 3.1.0
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1.942 swagger-ui-express 4.6.3
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1.944 wamerican 2020.12.07-2
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1.963 glibc 2.27-3ubuntu1.6

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1.964 gmp 2:6.2.1+dfsg-3ubuntu1

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1.965 libcap 2.44-1ubuntu0.22.04.1

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1.966 mongodb 3.7.4

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1.968 sqlite 3.26.0-18.el8_8

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1.969 fast-xml-parser 4.2.5

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1.976 validator 13.11.0
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1.980 spf13-pflag v1.0.5
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1.981 buffer-more-ints 1.0.0
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1.982 amqplib-tutorials 0.0.1
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1.983 bitsyntax 0.1.0
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1.984 libpkit 0.23.22-1.el8
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1.985 docusaurus 0.0.0
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1.986 file 5.41-3ubuntu0.1
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1.987 define-properties 1.2.1
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1.988 uuid 9.0.1
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1.989 ca-certificates 2023.2.60_v7.0.306-80.0.el8_8

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1.991 file 5.33-25.el8

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1.992 chkconfig 1.19.2-1.el8

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1.993 zlib 1.2.11-25.el8

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1.994 go-toml 1.9.4

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1.995 libpng 1.6.37

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1.996 ajv 5.5.2

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1.998 xtend 2.1.2

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1.1001 bson 4.7.2

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1.1003 semver 7.3.7

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1.1005 util 0.10.4

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1.1006 puppeteer 10.4.0

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1.1007 progress 2.0.1

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1.1016 has-flag 3.0.0

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- 1.1028 depd 2.0.0**
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- 1.1031 jws 3.2.2**
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- 1.1032 ecdsa-sig-formatter 1.0.11**
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- 1.1036 url-parse 1.5.1**
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- 1.1037 fresh 0.5.2**
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- 1.1038 @colors/colors 1.5.0**
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- 1.1039 is-retry-allowed 1.2.0**
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- 1.1040 lazy-property 1.0.0**
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- 1.1043 asynckit 0.4.0**
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- 1.1046 universalify 2.0.1**
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- 1.1047 kerberos 1.19.2-2ubuntu0.3**

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1.1061 @types/yauzl 2.10.3
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1.1062 procps 3.3.17-6ubuntu2.1
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1.1063 engine.io 6.5.4
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1.1064 libcap 1:2.44-1ubuntu0.22.04.1
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1.1065 apt 2.4.11
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1.1066 findutils 4.6.0-21.el8
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- 1.1067 libprocps 2:3.3.17-6ubuntu2.1**
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- 1.1069 pam 1.3.1-27.el8**
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- 1.1070 util-linux 2.32.1-43.el8**
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- 1.1071 libdnf 0.63.0-17.el8_9**
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- 1.1072 glibc 2.28-236.el8.7**
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- 1.1073 systemd 239-78.el8**
 - 1.1073.1 Available under license
- 1.1074 crypto-policies 20230731-1.git3177e06.el8**
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- 1.1075 redhatrelease 8.9-0.1.el8**
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- 1.1076 elfutils 0.189-3.el8**
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- 1.1077 component-emitter 1.3.1**
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- 1.1078 types-cors 2.8.17**
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- 1.1079 audit 3.0.7-5.el8**
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- 1.1081 gnutls 3.6.16-7.el8**
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- 1.1082 curl 7.61.1-33.el8**
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- 1.1086 perl-base 5.34.0-3ubuntu1.3**

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- 1.1087 python 3.10.12-1~22.04.3**
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- 1.1088 @types/http-proxy 1.17.14**
 - 1.1088.1 Available under license
- 1.1089 tar 1.34+dfsg-1ubuntu0.1.22.04.2**
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- 1.1090 mongodb 4.17.2**
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- 1.1091 moment 2.30.1**
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- 1.1092 @aws-crypto/sha256-js 3.0.0**
 - 1.1092.1 Available under license
- 1.1093 @aws-sdk/util-utf8-browser 3.259.0**
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- 1.1094 @aws-crypto/supports-web-crypto 3.0.0**
 - 1.1094.1 Available under license
- 1.1095 @aws-crypto/ie11-detection 3.0.0**
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- 1.1098 @apidevtools/openapi-schemas 2.1.0**
 - 1.1098.1 Available under license
- 1.1099 @apidevtools/swagger-parser 10.0.3**
 - 1.1099.1 Available under license
- 1.1100 @apidevtools/swagger-methods 3.0.2**
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- 1.1101 libc 2.35-0ubuntu3.6**
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- 1.1102 glibc 2.35-0ubuntu3.6**
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- 1.1105 libpamg 1.4.0-11ubuntu2.4**
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1.1112 cookie 0.6.0

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1.1113 moment-timezone 0.5.45

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1.1114 @types/component-emitter 1.2.14

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1.1115 engine.io-parser 5.2.2

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1.1116 golang 1.22.0

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1.1117 openssl 1.1.1x

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1.1123 lib-crypto 1.1.1l-r0

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1.1124 libssl 1.1.1l-r0

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1.1127 passwd 1:4.8.1-2ubuntu2.2

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1.1137 @smithy/is-array-buffer 2.2.0

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- 1.1145 @smithy/node-http-handler 2.5.0**
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- 1.1146 @smithy/invalid-dependency 2.2.0**
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- 1.1147 @smithy/util-hex-encoding 2.2.0**
 - 1.1147.1 Available under license
- 1.1148 @smithy/util-endpoints 1.2.0**
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- 1.1149 @smithy/util-retry 2.2.0**
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- 1.1170 @aws-sdk/util-user-agent-node 3.535.0**
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- 1.1171 @aws-sdk/types 3.535.0**
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 - 1.1179.1 Available under license
- 1.1180 @aws-sdk/middleware-recursion-detection 3.535.0**
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- 1.1181 ipaddr.js 1.9.1**
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- 1.1183 cors 2.8.5**

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1.1194 @aws-sdk/util-endpoints 3.540.0

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1.1199 @smithy/util-defaults-mode-browser 2.2.1

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- 1.1203 @aws-sdk/credential-provider-ini 3.549.0**
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- 1.1205 @aws-sdk/client-sso 3.549.0**
 - 1.1205.1 Available under license
- 1.1206 @aws-sdk/credential-provider-sso 3.549.0**
 - 1.1206.1 Available under license
- 1.1207 @aws-sdk/token-providers 3.549.0**
 - 1.1207.1 Available under license
- 1.1208 @aws-sdk/credential-provider-cognito-identity 3.549.0**
 - 1.1208.1 Available under license
- 1.1209 @aws-sdk/client-sts 3.549.0**
 - 1.1209.1 Available under license
- 1.1210 @smithy/middleware-retry 2.3.1**
 - 1.1210.1 Available under license
- 1.1211 @aws-sdk/client-cognito-identity 3.549.0**
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- 1.1215 @aws-sdk/credential-provider-web-identity 3.549.0**
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It was downloaded from:

<<http://ftp.gnome.org/pub/GNOME/sources/pango/>>

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1.4 graphite 1.3.10-0ubuntu0.16.04.1

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1.7 move-concurrently 1.0.1

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1.10 avahi 0.6.32~rc+dfsg-1ubuntu2.3

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses

the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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That's all there is to it!

1.11 gir1.2-gdkpixbuf-2.0 2.32.2-1ubuntu1.6

1.11.1 Available under license :

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<span class="city">Boston</span>, <span class="state">MA</span><span class="postcode">02111-
1307</span><br>
<span class="country">USA</span><br>
</p></div>
<p>
</p>

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Version 2, June 1991

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while

preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.12 nspr 4.13.1-0ubuntu0.16.04.1

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1.13 boost 1.58.0+dfsg-5ubuntu3.1

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```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.78.1">
<link rel="home" href="../../index.html" title="Chapter 1; Boost.TypeTraits">
<link rel="up" href="../../index.html" title="Chapter 1; Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../more/index.htm">More</a></td>
</tr></table>
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<a accesskey="p" href="intrinsic.html"></a><a accesskey="u" href="../../index.html"></a><a accesskey="h" href="../../index.html"></a><a accesskey="n" href="examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.
</p>
<p>
Purely as an implementation detail, this means that <a class="link" href="reference/integral_constant.html" title="integral_constant">true_type</a>
```

```

    inherits from <a href="../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
    <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</a></code>
    inherits from <a href="../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span
class="special">::</span><span class="identifier">mpl</span><span class="special">::</span><span
class="identifier">false_</span></code></a>,
    and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant</a><span class="special">&lt;</span><span
class="identifier">T</span><span class="special">,</span>
    <span class="identifier">v</span><span class="special">&gt;</span></code>
    inherits from <a href="../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span
class="special">&lt;</span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special">&gt;</span></code></a>
    (provided <code class="computeroutput"><span
class="identifier">T</span></code> is not <code class="computeroutput"><span
class="keyword">bool</span></code>)
  </p>
</div>
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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
Abrahams,
    Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
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    Distributed under the Boost Software License, Version 1.0. (See accompanying
    file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
  </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a accesskey="u" href="..index.html"></a><a accesskey="h" href="..index.html"></a><a accesskey="n" href="examples.html"></a>
</div>
</body>
</html>

```

```

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year ==
end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^((?P<prefix>\W*)(\c))?\s*?copyright\s*(\c)?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)

```

```

        names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in
lines:
            for repl in new:
                print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
    //////////////////////////////////////
    //
    // (C) Copyright Ion Gaztanaga    2006-2014
    // (C) Copyright Microsoft Corporation 2014
    //
    // Distributed under the Boost Software License, Version 1.0.
    // (See accompanying file LICENSE_1_0.txt or copy at
    //   http://www.boost.org/LICENSE_1_0.txt)
    //
    // See http://www.boost.org/libs/intrusive for documentation.
    //
    //////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once

```

```

#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

template <typename T, typename U>
struct is_same
{
    static const bool value = false;
};

template <typename T>
struct is_same<T, T>
{
    static const bool value = true;
};

template<typename
    T>
struct add_const
{ typedef const T type; };

template<typename T>
struct remove_const
{ typedef T type; };

template<typename T>
struct remove_const<const T>
{ typedef T type; };

template<typename T>
struct remove_cv
{ typedef T type; };

template<typename T>
struct remove_cv<const T>
{ typedef T type; };

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; };

template<typename T>
struct remove_cv<volatile T>

```



```

{ typedef T type; };

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&& >
{
    typedef T type;
};

template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*>
{
    typedef T type;
};

template<class T>
struct add_pointer
{
    typedef T *type;
};

typedef char one;
struct two { one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};

typedef bool_<true>    true_;

```

```

typedef bool_<false>    false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T>{};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};

#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t

```

```

dispatch(U);
static typename remove_reference<T>::type &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

```

```

#endif

```

```

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

```

```

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

```

```

template<
    typename C
    , typename T1
    , typename T2
    >
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

```

```

template<
    bool C
    , typename F1
    , typename F2
    >
struct eval_if_c
: if_c<C,F1,F2>::type
{};

```

```

template<
    typename C

```

```

    , typename T1
    , typename T2
    >
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
        , typename add_const<T>::type
        , T
        >::type type;
};

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)

```

```

        , sizeof(T)
        >::value;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ?
    0 : (1 + ls_zeros<(S)>>1u)>::value;
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_default_type_ ## TNAME \

```

```

{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename
X>
    static int test(...);

    struct DefaultWrap { typedef DefaultType TNAME; };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::if_c
        <value, T, DefaultWrap>::type::TNAME type;
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL)
    typename INSTANTIATION_NS_PREFIX
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_ ## TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap
    { typedef typename DefaultType::type TNAME; };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::eval_if_c
        < value
        , ::boost::intrusive::detail::identity<T>
        , ::boost::intrusive::detail::identity<DefaultWrap>
        >::type::TNAME type;
};

```

```

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_eval_default_type_## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three\
    { one _[2 + Add];};\
    template <class U> static one test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{ \
private: \
    template<Signature> struct helper;\
    template<typename T> \
    static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*); \
    template<typename T> static ::boost::intrusive::detail::no_type check(...); \
public: \
    static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \

```

```

struct BaseMixin \
{ \
    void FUNC_NAME(); \
}; \
struct Base : public Type, public BaseMixin { Base(); }; \
template <typename T, T t> class Helper{}; \
template <typename U> \
static ::boost::intrusive::detail::no_type check(U*, Helper<void (BaseMixin::*), &U::FUNC_NAME>* = 0); \
static ::boost::intrusive::detail::yes_type check(...); \
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAIT_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAIT_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \
struct TRAIT_NAME \
: public TRAIT_NAME##_ignore_signature<Type> \
{}; \
//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>
        (static_cast<void*>
            (const_cast<char*>
                (&reinterpret_cast<const char*>(obj))
            )
        );
}

} //namespace detail
}
//namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

```


Maybe this should pass?

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
```

```
Subject to the Boost Software License, Version 1.0.
```

```
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
```

```
-->
```

```
<section id="date_time.license">
```

```
<title>Boost Date-Time Library License</title>
```

```
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
```

```
<!--
```

```
<ulink url="../../index.htm">
```

```
<imagedata align="left"
```

```
format="GIF"
```

```
fileref="../../boost.png"
```

```
alt="C++ Boost" />
```

```
</ulink>-->
```

```
<!--hr /-->
```

```
<para>
```

The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

```
</para>
```

```
<para>
```

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```
</para>
```

```
<para>
```

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```
</para>
```

```
<!--hr / -->
```

```
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
```

```
&#169; 2000-2002
```

```
</section>
```

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--- end ---

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the

garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)

subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
```

=====
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// Boost.Geometry (aka GGL, Generic Geometry Library)
```

```
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```

```
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// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.
```

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- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections

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[article Invalid copyright years

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//

// See <http://www.boost.org/libs/container> for documentation.

//

////////////////////////////////////

```
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

```
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
```

```
# include <boost/config.hpp>
```

```
#endif
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
```

```
# pragma once
```

```
#endif
```

```
#include <boost/container/detail/config_begin.hpp>
```

```
#include <boost/container/detail/workaround.hpp>
```

```
#include <cstddef>
```

```
namespace boost {
```

```
namespace container {
```

```
namespace container_detail {
```

```
template <class T, T val>
```

```
struct integral_constant
```

```
{
```

```
    static const T value = val;
```

```

typedef integral_constant<T, val> type;
};

template< bool C_>
struct bool_
: integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

template< unsigned V_>
struct unsigned_ : integral_constant<unsigned, V_>
{
    static const unsigned value = V_;
    operator unsigned() const { return unsigned_::value; }
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

#ifdef _MSC_VER && (_MSC_VER >= 1400)

```

```

template <class T, class U>
struct is_convertible
{

    static const bool value = __is_convertible_to(T, U);
};

#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static T &trigger();
public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

#endif

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2

```

```

, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
    typedef Pair          argument_type;
    typedef typename Pair::first_type  result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T  argument_type;
    typedef T  result_type;

    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>

```

```

{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type
    { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
////////////////////////////////////
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <cstddef>

namespace boost {

```

```

namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>    true_;
typedef
bool_<false>    false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
};

```

```

static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1

    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
}

```



```

};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail
{
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
[/
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]

```

```
[/  
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]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [@../.../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [@../.../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`], `__false_type` inherits from [@../.../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [@../.../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]

```
/*  
*  
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* Boost Software License, Version 1.0. (See accompanying file  
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)  
*  
*/
```

```
#include "licence_info.hpp"  
#include "bcp_imp.hpp"  
#include "fileview.hpp"  
#include <fstream>  
#include <iomanip>  
#include <cstring>  
#include <stdexcept>  
#include <boost/lexical_cast.hpp>  
#include <boost/filesystem/operations.hpp>  
#include <boost/throw_exception.hpp>
```

```
//  
// split_path is a small helper for outputting a path name,  
// complete with a link to that path:  
//  
struct split_path  
{
```

```

const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"\" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
    return os;
}

std::string
make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\n"

```

```

"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
os << " for " << *(m_module_list.begin());
}
os <<
"</title>\n"
"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
os << " for " << *(m_module_list.begin());
}
os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
// title:
os << " <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
<< "\">" << licenses.first[i->first].license_name << "</a>\n";
++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
"<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
os <<
"Moving to the Boost Software License...\n"
" <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
" <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
" <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
" <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
"<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
"<a href=\"#depend\">File Dependency Information</a>\n"
"</pre>";

```

```

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os
    << *si << "<BR>";
    ++si;
}
os << "<p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence
Summary</h2>\n";
    while(i != j)
    {

```

```

// title:
os <<
    "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
    << " authors and " << i->second.files.size()
    << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
        << "\"></a>" << licenses.first[i->first].license_name
    << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();

```

```

        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path,
*m) << "<br>\n";
            ++m;
        }
        os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P></BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found
copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n</BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)

```

```

{
//
// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
    << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())

    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border=\"1\">\n <tr>\n <td><pre>"
                << i->second.first << "</pre></td>\n <td><pre>"
                << i->second.second << "</pre></td>\n </tr>\n</table>\n";
            ++i;
            ++file_num;
        }
    }
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software

```



```

License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that
we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
        "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
        os << "<tr><td>" << ad->first << "</td><td>";
        std::set<fs::path,
path_less>::const_iterator fi, efi;
        fi = ad->second.begin();
        efi = ad->second.end();
        while(fi != efi)
        {
            os << split_path(m_boost_path, *fi) << " ";
            ++fi;
        }
        os << "</td></tr>\n";
        ++ad;
    }
    os << "</table>\n";
}

//
// output file dependency information:
//

```

```

os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
        }
}

```

```

        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
}

```

[=====]

Boost.Geometry (aka GGL, Generic Geometry Library)

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=====]

1.14 Icms 2.6-3ubuntu2.1

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1.15 shared-mime-info 1.5-2ubuntu0.2

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1.16 icu 55.1-7ubuntu0.4

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"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>ICU License - ICU 1.8.1 and later</title>
</head>

<body BGCOLOR="#ffffff">
<h2>ICU License - ICU 1.8.1 and later</h2>
```

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```
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# -----COPYING.ipadic-----END-----
</pre>
```

<h3>3. Lao Word Break Dictionary Data (laodict.txt)</h3>

```
<pre>
# Copyright (c) 2013 International Business Machines Corporation
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#
# Project:  http://code.google.com/p/lao-dictionary/
# Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
# License:  http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
#          (copied below)
#
# This file is derived from the above dictionary, with slight modifications.
# -----
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# -----
</pre>
```

<h3>4. Burmese Word Break Dictionary Data (burmesedict.txt)</h3>

```
<pre>
# Copyright (c) 2014 International Business Machines Corporation
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```

```
#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
#
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# -----
</pre>
```

<h3>5. Time Zone Database</h3>

<p>ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.</p>

<pre>

7. Database Ownership

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```
</pre>
```

```
</body>
```

```
</html>
```

```
## *-makefile*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2013, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```
## Compiler switch to embed a library name
```

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
## Shared library options
```

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```
## Shared object suffix
```

```

SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c)
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

##
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =

```

STATIC_PREFIX =

End BSD-specific setup

1.17 at-spi2-core 2.18.3-4ubuntu1

1.17.1 Available under license :

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That's all there is to it!

1.18 glib-networking 2.48.2-1~ubuntu16.04.1

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1.19 libxcursor 1.1.14-1ubuntu0.16.04.2

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1.20 llvm 6.0-1ubuntu2~16.04.1

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB
  %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
  store i8 %S1163, i8* %0
  br label %CF248
}
```

```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
```

```
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s
```

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpaddq (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpaddq 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```

```
define
```



```

%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr)
"min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @psubus_64i8_max_256(<64 x i8>* %xptr,
<64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```



```

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-
width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0,
(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3,
%ymm5, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0

```

```

; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```
%3 = zext i32 %2 to i64
```

```
br label %vector.body
```

vector.body:

```
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
```

```
%vec.phi = phi <32 x i32>
```

```
[ %11, %vector.body ], [ zeroinitializer, %entry ]
```

```
%4 = getelementptr inbounds i8, i8* %0, i64 %index
```

```
%5 = bitcast i8* %4 to <32 x i8>*
```

```
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
```

```
%6 = sext <32 x i8> %wide.load to <32 x i32>
```

```
%7 = getelementptr inbounds i8, i8* %1, i64 %index
```

```
%8 = bitcast i8* %7 to <32 x i8>*
```

```
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
```

```
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
```

```
%10 = mul nsw <32 x i32> %9, %6
```

```
%11 = add nsw <32 x i32> %10, %vec.phi
```

```
%index.next = add i64 %index, 32
```

```
%12 = icmp eq i64 %index.next, %3
```

```
br i1 %12, label %middle.block, label %vector.body
```

middle.block:

```
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
```

```
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
```

```
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
```

```
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
```

```
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
```

```
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
```

```

%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20,
i32 0
ret i32 %13
}

```

```

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
;
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:

```

%3 = zext i32 %2 to i64

br label %vector.body

vector.body:

%index = phi i64 [%index.next, %vector.body], [0, %entry]

%vec.phi = phi <32 x i32> [%11, %vector.body], [zeroinitializer, %entry]

%4 = getelementptr inbounds i8, i8* %0, i64 %index

%5 = bitcast i8* %4 to <32 x i8>*

%wide.load = load <32 x i8>, <32 x i8>* %5, align 1

%6 = sext <32 x i8> %wide.load to <32 x i32>

%7 = getelementptr inbounds i8, i8* %1, i64 %index

%8 = bitcast i8* %7 to <32 x i8>*

%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1

%9 = sext <32 x i8> %wide.load14 to <32 x i32>

%10 = mul nsw <32 x i32> %9, %6

%11 = add nsw <32 x i32> %10, %vec.phi

%index.next = add i64 %index, 32

%12 = icmp eq i64 %index.next, %3

br i1 %12, label %middle.block, label %vector.body

middle.block:

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1

%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef>

%bin.rdx = add <32 x i32> %bin.rdx1,

%rdx.shuf

%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef>

%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15

%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef>

%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17

%rdx.shuf19 = shufflevector

<32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef>

%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19

```

%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header:
Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd { {. *#+ } } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>,
<16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>

```

```

%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```

%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement
<16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1

```

```

; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd { {.##+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd { {.##+} } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1,
%xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```
br label %vector.body
```

vector.body:

```

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32>
%6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```

%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```

i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask
= icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:      # %bb.0:

```



```

; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
;
CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1,
(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0

```

```

; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16>
%a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld
$31, %ymm2, %ymm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvt dq2pd %xmm2, %ymm2

```

```

; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT:
vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer

```

```
ret <16 x i16> %select
}
```

```
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16>
%passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
```

```
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask =
fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
```

```
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
```

}

```
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw
  {{.*#+}} ymm4 =
ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13
],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ym
mm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[
31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 =
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[
5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[
19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm0
= ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ym
mm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ym
mm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT: vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2
; CHECK-NEXT: vpunpcklbw {{.*#+}}
  ymm3 =
ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[
5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[
19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
```

```

ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[
5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[
19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>*
%c
ret void
}

```

```

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[
26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[
45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[
63]
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vmovdqa64 {{.*#+}} %zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,2
55,255,255,255,255]
; CHECK-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-NEXT: vpunpcklbw {{.*#+}} %zmm1 =
zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19]
,zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm
0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-NEXT: vpunpcklbw {{.*#+}}

```

```

zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

=====
LLVM Release License
=====

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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Program	Directory
-----	-----
<none yet>	
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py	
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 FileCheck %s --check-prefixes=CHECK,VEC256,AVX	
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit FileCheck %s --check-prefixes=CHECK,VEC256,SKX256	
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit FileCheck %s --check-prefixes=CHECK,VEC512	
define void @zext256() "min-legal-vector-width"="256" {	
; VEC256-LABEL: 'zext256'	
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>	
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>	
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>	
; VEC256-NEXT:	
Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>	
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>	
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void	
;	
; VEC512-LABEL: 'zext256'	
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>	


```

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16>
undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of
1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x

```

```

i32>
; VEC512-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D
= sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of
1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>

```

```

%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E
= sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for
instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;

```

```
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16>
undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
```

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```
-----  
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*  
* @(#)COPYRIGHT 8.1 (Berkeley) 3/16/94  
*/  
  
; RUN: llc -march=hexagon < %s  
; REQUIRES: asserts  
  
; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.  
  
target triple = "hexagon"  
  
%struct.0 = type { i8*, i8, %union.anon.0 }  
%union.anon.0 = type { i8* }
```

```

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
; preds = %entry
br label %while.body

while.body:
; preds = %exit.2, %while.body.lr.ph
%lshr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i:
; preds = %while.body
unreachable

sw.bb3.i:
; preds = %while.body
unreachable

exit:
; preds = %while.body
switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17:
; preds = %exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:
; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:
; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

while.end:
; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

```

```
; RUN: opt %s -inline -S | FileCheck %s
```

```
define internal void @innerSmall() "min-legal-vector-width"="128" {  
  ret void  
}
```

```
define internal void @innerLarge() "min-legal-vector-width"="512" {  
  ret void  
}
```

```
define internal void @innerNoAttribute() {  
  ret void  
}
```

```
; We should not add an attribute during inlining. No attribute means unknown.  
; Inlining doesn't change the fact that we don't know anything about this  
; function.
```

```
define void @outerNoAttribute() {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()  
  ret void  
}
```

```
; We should remove the attribute after inlining since the callee's  
; vector width requirements are unknown.
```

```
define void @outerAttribute() "min-legal-vector-width"="128" {  
  call void @innerNoAttribute()  
  ret void  
}
```

```
; CHECK: define void @outerNoAttribute() {
```

```
; CHECK:
```

```
define void @outerConflictingAttributeSmall() #0
```

```
; CHECK: define void @outerConflictingAttributeLarge() #0
```

```
; CHECK: define void @outerAttribute() {
```

```
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
```

```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
```

```

; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#

```



```
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# https://developers.google.com/open-source/cla/individual
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#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
#   Name <email address>
#
# Please keep the list sorted.
```

```
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Arne Beer <arne@twobeer.de>
Billy
Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
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Dominic Hamon <dma@stripysock.com> <dominic@google.com>
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 ; RUN: opt -consthoist -S -o - %s | FileCheck %s
 target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
 target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
 ; Also check that a constant used as value to be stored rather than
 ; pointer in a store instruction is hoisted.
 ; CHECK: foo_i8
 ; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
 ; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
 ; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
 ; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
 ; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
 ; CHECK-NEXT: %1 = load volatile i8, i8* %0
 ; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
 ; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
 ; CHECK-NEXT: %3 = load volatile i8, i8* %2
 ; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
 ; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
 ; CHECK-NEXT: %5 = load volatile i8, i8*
 %4
 ; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
 ; CHECK-NEXT: %7 = load volatile i8, i8* %6
 ; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
 ; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
 ; CHECK-NEXT: %9 = load volatile i8, i8* %8
 ; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
 ; CHECK-NEXT: store i8 %9, i8* %10
 ; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
 ; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
 ; CHECK-NEXT: store i8 %7, i8* %11
 ; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
 ; CHECK-NEXT: store i8 %5, i8* %12
 ; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7

```

; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile
i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:

```

```

%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

```

```

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

```

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=====

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

;

; D31946

; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.

; Additionally ensure that the output code actually put fp128 values in SSE registers.

```
declare fp128 @llvm.fabs.f128(fp128)
```

```
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
```

```
  %cmp = fcmp ogt fp128 %a, %b
```

```
  %sub = fsub fp128 %a, %b
```

```
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
```

```
  ret fp128 %res
```

```
; CHECK-LABEL: TestSelect:
```

```
; CHECK      movaps 16(%rsp), %xmm1
```

```
; CHECK-NEXT callq __subtf3
```

```
; CHECK-NEXT testl %ebx, %ebx
```

```
; CHECK-NEXT jg .LBB0_2
```

```
; CHECK-NEXT # %bb.1:
```

```
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
```

```
; CHECK-NEXT .LBB0_2:
```

```
; CHECK-NEXT addq $32, %rsp
```

```
; CHECK-NEXT popq %rbx
```

```
; CHECK-NEXT retq
```

```
}
```

```

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
; CHECK-LABEL: TestFabs:
;
    CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

1.21 mesa 18.0.5-0ubuntu0~16.04.1

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#
# Authors:
# Ian Romanick <idr@us.ibm.com>
```

```
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```

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SOFTWARE."""
```

```
/* Legal characters in GLSL are:
```

```
*
```

```
* Identifier characters:
```

```
*
```

```
* Letters a-z
```

```
* Letters A-Z
```

```
* Underscore
```

```
* Numbers 0-9
```

```
*
```

```
* Punctuation:
```

```
*
```

```
* Period, plus, dash, slash, asterisk, percent, angled brackets,
```

- * square brackets, parentheses, braces, caret, vertical bar,
- * ampersand, tilde, equals, exclamation point, colon, semicolon,
- * comma, and question mark

*

* Special:

*

* Number sign (as used in preprocessor)

*

* Backslash just before newline as line continuation

*

* White space:

*

* Space, horizontal tab, vertical tab, form feed, carriage-return,
and line-feed.

*

* [GLSL Language Specification 4.30.6, section 3.1]

*

* In this file, we test each of these in turn as follows:

*

* Identifier characters: All pass through unchanged

* Punctuation: All pass through unchanged

* Special: Empty directive replaced with blank line

* Line continuation merges two lines, then a blank line

* Whitespace:

4 horizontal space characters each replaced with space

* 2 newline characters each replaced with a newline

*

*/

abcdefghijklmnopqrstuvwxy

ABCDEFGHIJKLMNQRSTUWXYZ

-

0123456789

.

+

-

/

*

%

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..
..
..

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

-
0123456789

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+
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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>
<div class="content">

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contact a licensed
vendor.
</p>

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</p>

<p>
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>Silicon Graphics Incorporated</a>.
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```

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</p>

<p>

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This allows integration with the XFree86, Xorg and DRI projects.

</p>

<p>

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</p>

<pre>

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```

</pre>

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</p>

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<pre>

| Component | Location | License |
|----------------------|--|-----------------------------|
| Main Mesa code | src/ mesa/ | MIT |
| Device drivers | src/ mesa/ drivers/ * | MIT, generally |
| Gallium code | src/ gallium/ | MIT |
| Ext headers | include/ GL/ glxext.h
include/ GL/ glxext.h | Khronos |
| GLX client code | src/ glx/ | SGI Free Software License B |
| C11 thread emulation | include/ c11/ threads*.h | Boost (permissive) |

</pre>

<p>

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</p>

</div>

</body>

</html>

1.22 elfutils 0.165-3ubuntu1.2

1.22.1 Available under license :

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Version 3, 29 June 2007

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1.24 libsoup 2.52.2-1ubuntu0.3

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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1.25 capnproto 0.5.3-2ubuntu1.1

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1.26 wayland 1.12.0-1~ubuntu16.04.3

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1.27 json-glib 1.1.2-0ubuntu1

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```

1.28 colored 1.2.12-1ubuntu1

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```
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<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>AppendixA.License: colord Reference Manual</title>
<meta name="generator" content="DocBook XSL Stylesheets V1.78.1">
<link rel="home" href="index.html" title="colord Reference Manual">
<link rel="up" href="index.html" title="colord Reference Manual">
<link rel="prev" href="ix01.html" title="Index">
<meta name="generator" content="GTK-Doc V1.24 (XML mode)">
<link rel="stylesheet" href="style.css" type="text/css">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
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<td><a accesskey="h" href="index.html"></a></td>
<td></td>
<td><a accesskey="p" href="ix01.html"></a></td>
<td></td>
</tr></table>
```

```
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<div class="titlepage"><div><div><h1 class="title">
<a name="license"></a>Appendix A. License</h1></div></div></div>
<p>
</p>
<pre class="programlisting">          GNU GENERAL PUBLIC LICENSE
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```

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```
</pre>  
<p>  
  </p>  
</div>  
<div class="footer">  
<hr>Generated by GTK-Doc V1.24</div>  
</body>  
</html>
```

1.29 ip 1.1.5

1.30 uuid 3.4.0

1.30.1 Available under license :

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```
/*  
* UUIDGen.java  
*
```

```

* Created on 09.08.2003.
*
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*/

```

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```

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```

```

/*
* UUID.java
*
* Created 07.02.2003
*
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/*

* MACAddressParserTest.java

*

* Created 30.01.2006.

*

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```

/*
 * Hex.java
 *
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```

* /opt/cola/permits/1006044526_1651084570.4/0/uuid-3-4-0-sources-jar/com/eaio/util/lang/Hex.java

```

1.31 glib 2.48.2-0ubuntu4.4

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1.32 zlib 1.2.11-r3

1.32.1 Available under license :

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1.33 free-type 2.6.1-0.1ubuntu2.4

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2006-Jan-27

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#

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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

```
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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```

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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1.34 cups 2.1.3-4ubuntu0.10

1.34.1 Available under license :

usr/sbin/lpc

usr/bin/lpq

usr/bin/lpr

usr/bin/lprm

usr/share/man/man1/lpr.1.gz

usr/share/man/man1/lprm.1.gz

usr/share/man/man1/lpq.1.gz

usr/share/man/man8/lpc.8.gz

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: CUPS

Upstream-Contact: Michael Sweet <msweet@apple.com>

Source: <https://cups.org/software.php>

Files: *

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Files: cups/* filter/*

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Files: cups/md5-private.h

cups/md5.c

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Files: scheduler/colorman.c

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1.35 rootfiles 8.1-22.el8

1.35.1 Available under license :

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1009541302_1591901904.49/0/rootfiles-8.1-22.el8.src.rpm-cosi-expand-archive-8uQKwO6W/rootfiles.spec

1.36 libutempter 1.1.6-14.el8

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Version 2.1, February 1999

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1.39 d-bus 1.10.6-1ubuntu3.5

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1.40 punycode 1.4.1

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1.44 http-signature 1.2.0

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include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3

man/unvis.3
man/vis.3
man/wcslcpy.3
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/flopen.3
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src/expand_number.c
src/hash/sha512.h
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man/readpassphrase.3

man/strncpy.3

man/strtonum.3

src/arc4random.c

src/arc4random_openbsd.h

src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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include/bsd/md5.h

src/hash/md5.c

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This code implements the MD5 message-digest algorithm.

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Files:

src/explicit_bzero.c

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src/hash/helper.c

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1.50 request 2.88.2

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1.65 https-proxy-agent 5.0.0

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https-proxy-agent

=====

```
### An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-https-proxy-agent/actions?workflow=Node+CI)
```

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation

Install with `npm`:

```
``` bash
$ npm install https-proxy-agent
```
```

Examples

```
####
`https` module example

``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
```

```

var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```



#### `ws` WebSocket connection example



```

``` js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var
  proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

```


```

```
socket.on('message', function (data, flags) {
 console.log("message" event! %j %j', data, flags);
 socket.close();
});

```

API

---

### new `HttpsProxyAgent`(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- \* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- \* `port` - Number - Proxy port to connect to. Required.
- \* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- \* `headers` - Object - Additional HTTP headers to be sent on the HTTP `CONNECT` method.
- \* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: [http://en.wikipedia.org/wiki/HTTP\\_tunnel#HTTP\\_CONNECT\\_Tunneling](http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling)

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\* /opt/ws\_local/PERMITS\_SQL/1063935529\_1593103864.72/0/https-proxy-agent-5-0-0-1-tgz/package/README.md

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// ES3/ES5 implementation of the Khronos Typed Array Specification  
// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>  
// Date: 2011-02-01  
//  
// Variations:  
// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

# 1.118 debuglog 1.0.1

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## 1.123 http-proxy-agent 2.1.0

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http-proxy-agent

=====

### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://travis-ci.org/TooTallNate/node-http-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-http-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

\_\_Note:\_\_ For HTTP proxy usage with the `https` module, check out [node-https-proxy-agent](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

-----

Install with `npm`:

```
``` bash
$ npm install http-proxy-agent
```
```

## Example

-----

```
``` js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTP endpoint
for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});
```
```

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-----

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Found in path(s):

\* /opt/cola/permits/1110633572\_1612225616.61/0/http-proxy-agent-2-1-0-5-tgz/package/README.md

## 1.124 pumpify 1.5.1

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};
```

```
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
 validForOldPackages: false,
 validForNewPackages: false,
 warnings: [
 'license should be ' +
 'a valid SPDX license expression (without "LicenseRef"), ' +
 "'UNLICENSED", or ' +
 "'SEE LICENSE IN <filename>",
 'license is similar to the valid expression "Apache-2.0"'
]
 }
);
...

```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
 'license should be ' +
 'a valid SPDX license expression (without "LicenseRef"), ' +
 "'UNLICENSED", or ' +
 "'SEE LICENSE IN <filename>",
]
}

```

```

};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
...

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
  valid('SEE
LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
...

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
...

```

# 1.130 genfun 5.0.0

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Found in path(s):

\* /opt/cola/permits/1110634135\_1607035404.4/0/agent-base-4-2-1-4-tgz/package/README.md

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## 1.168 concat-stream 1.6.2

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## 1.170 babel-runtime 6.26.0

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## 1.171 caseless 0.12.0

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## 1.173 buffer-from 1.0.0

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## 1.174 console-control-strings 1.1.0

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# 1.175 cookie-signature 1.0.6

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```
cookie-signature
```

Sign and unsign cookies.

```
Example
```

```
```js
```

```
var cookie = require('cookie-signature');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIikCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

```
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## 1.177 execa 0.7.0

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Found in path(s):

\* /opt/cola/permits/1110635849\_1607035374.31/0/imurmurhash-0-1-4-4-tgz/package/README.md

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## 1.189 oauth-sign 0.9.0

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```

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```
options.js
```

A very light-weight in-code option parsers for node.js.

```
Usage
```

```
``` js
```

```
var Options = require("options");
```

```
// Create an Options object
```

```
function foo(options) {  
  var default_options = {  
    foo : "bar"  
  };
```

```
// Create an option object with default value
```

```
var opts = new Options(default_options);
```

```
// Merge options
```

```
opts = opts.merge(options);
```

```
// Reset to default value
```

```
opts.reset();
```

```
// Copy selected attributes out
```

```
var seled_att = opts.copy("foo");
```

```
// Read json options from a file.
```

```
opts.read("options.file"); // Sync
```

```
opts.read("options.file", function(err){ // Async
```

```
  if(err){ // If error occurs
```

```
    console.log("File error.");
```

```
  }else{
```

```
        // No error
    }
});

    // Attributes defined or not
    opts.isDefinedAndNonNull("foobar");
    opts.isDefined("foobar");
}

...

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1.208 validate-npm-package-name 3.0.0

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1.209 debug 3.1.0

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1.211 regenerator-runtime 0.11.1

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* /opt/cola/permits/1110631596_1606854664.8/0/regenerator-runtime-0-11-1-3-tgz/package/runtime-module.js
* /opt/cola/permits/1110631596_1606854664.8/0/regenerator-runtime-0-11-1-3-tgz/package/runtime.js
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1.212 ansicolors 0.3.2

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1.213 set-blocking 2.0.0

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1.214 read 1.0.7

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1.217 decamelize 1.2.0

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1.218 ms 2.1.2

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1.219 json-parse-better-errors 1.0.2

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1.220 ws 1.1.5

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* /opt/cola/permits/1110639655_1606843085.09/0/ws-1-1-5-2-tgz/package/lib/Sender.hixie.js

* /opt/cola/permits/1110639655_1606843085.09/0/ws-1-1-5-2-tgz/package/lib/Validation.js

* /opt/cola/permits/1110639655_1606843085.09/0/ws-1-1-5-2-tgz/package/lib/Receiver.hixie.js

1.221 wewidth 1.0.1

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wewidth.js: JavaScript Portng of Markus Kuhn's wewidth() Implementation

=====

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This package is a JavaScript porting of `wewidth()` implementation

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1.224 gauge 2.7.4

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1.226 extsprintf 1.3.0

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1.227 asap 2.0.6

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1.228 tiny-relative-date 1.3.0

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1.230 core-util-is 1.0.2

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1.231 strip-ansi 3.0.1

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1.233 glob 6.0.4

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1.234 os-tmpdir 1.0.2

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1.238 end-of-stream 1.4.1

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1.239 verror 1.10.0

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1.240 are-we-there-yet 1.1.4

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1.241 json-parse 1.3.1

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1.243 ultron 1.0.2

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1.244 fs-write-stream-atomic 1.0.10

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1.246 color-convert 1.9.1

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1.247 archy 1.0.0

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1.248 inflight 1.0.6

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1.249 ms 2.0.0

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1.252 create-error-class 3.0.2

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1.256 tweetnacl 0.14.5

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1.261 mute-stream 0.0.7

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1.267 npmlog 4.1.2

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1.277 https-proxy-agent 2.2.4

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https-proxy-agent

=====

An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-https-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other

protocols that use this method when connecting over proxies (i.e. WebSockets).
See the "Examples" section below for more.

Installation

Install with `npm`:

```
``` bash
$ npm install https-proxy-agent
```
```

Examples

####

`https` module example

```
``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```
```

`ws` WebSocket connection example

```
``` js
var url = require('url');
```

```

var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy
 || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
 console.log("'open" event!');
 socket.send('hello world');
});

socket.on('message', function (data, flags) {
 console.log("'message" event! %j %j', data, flags);
 socket.close();
});

```

## API

---

```
new HttpsProxyAgent(Object options)
```

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests.

This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- \* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- \* `port` - Number - Proxy port to connect to. Required.
- \* `protocol` - String - If `https:`, then use TLS to connect to the proxy.

- \* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- \* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: [http://en.wikipedia.org/wiki/HTTP\\_tunnel#HTTP\\_CONNECT\\_Tunneling](http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling)

Found in path(s):

\* /opt/cola/permits/1112087480\_1607035434.28/0/https-proxy-agent-2-2-4-6-tgz/package/README.md

## 1.278 socks 2.3.3

### 1.278.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3-5-2-0-g9b81362-tar-gz/node-modules-agentkeepalive-9b81362/README.md
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* /opt/cola/permits/1112087866_1607035279.17/0/node-modules-agentkeepalive-3-5-2-0-g9b81362-tar-gz/node-modules-agentkeepalive-9b81362/lib/_http_agent.js
```

# 1.280 stringify-package 1.0.1

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# 1.282 socks-proxy-agent 4.0.2



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socks-proxy-agent

=====

### A SOCKS proxy `http.Agent` implementation for HTTP and HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-socks-proxy-agent.svg?branch=master)](https://travis-ci.org/TooTallNate/node-socks-proxy-agent)

This module provides an `http.Agent` implementation that connects to a specified SOCKS proxy server, and can be used with the built-in `http` or `https` modules.

It can also be used in conjunction with the `ws` module to establish a WebSocket connection over a SOCKS proxy. See the "Examples" section below.

Installation

-----

Install with `npm`:

```
``` bash
$ npm install socks-proxy-agent
```
```

Examples

-----

#### `http` module example

```
``` js
var url = require('url');
var http = require('http');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using
proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);
```

```

opts.agent = agent;

http.get(opts, function (res) {
  console.log("response" event!", res.headers);
  res.pipe(process.stdout);
});
...

#### `https` module example

``` js
var url = require('url');
var https = require('https');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://encrypted.google.com/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);

// create an instance of the `SocksProxyAgent`
class with the proxy server information
var agent = new SocksProxyAgent(proxy);
opts.agent = agent;

https.get(opts, function (res) {
 console.log("response" event!", res.headers);
 res.pipe(process.stdout);
});
...

`ws` WebSocket connection example

``` js
var WebSocket = require('ws');
var SocksProxyAgent = require('socks-proxy-agent');

// SOCKS proxy to connect to
var proxy = process.env.socks_proxy || 'socks://127.0.0.1:9050';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
console.log('attempting to connect to WebSocket %j', endpoint);

```

```
// create an instance of the `SocksProxyAgent` class with the proxy server information
var agent = new SocksProxyAgent(proxy);

// initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log("'open' event!");
  socket.send('hello world');
});

socket.on('message',
function (data, flags) {
  console.log("'message' event! %j %j", data, flags);
  socket.close();
});
...

```

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Found in path(s):

* /opt/cola/permits/1112087816_1607035421.82/0/socks-proxy-agent-4-0-2-5-tgz/package/README.md

1.283 p-try 2.2.0

1.283.1 Available under license :

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1.284 chownr 1.1.4

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1.285 npm-packlist 1.4.8

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1.286 call-limit 1.1.1

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1.287 es-abstract 1.12.0

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1.288 agent-base 4.3.0

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* /opt/cola/permits/1112087593_1607035045.04/0/agent-base-4-3-0-5-tgz/package/README.md

1.289 npm-normalize-package 1.0.1

1.289.1 Available under license :

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1.290 pkg-dir 4.2.0

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1.291 minipass-flush 1.0.5

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1.292 libusb 1.0.23-4.el8

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Any executables

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1.298 from2 1.3.0

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1.301 libpsl 0.20.2-6.el8

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1.302 libxi 1.7.6-1

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1.303 Im-sensors 3.4.0-2

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.304 js-base64 2.6.4

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1.305 which 2.0.2

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1.306 1to2 1.0.0

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Found in path(s):

* /opt/cola/permits/1127086437_1611781577.89/0/1to2-1-0-0-2-tgz/package/1to2.js

1.307 sparse-bitfield 3.0.3

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1.308 memory-pager 1.5.0

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1.309 strip-ansi 5.2.0

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1.311 gtk 3.18.9-1ubuntu3.3

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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1.312 atk 2.18.1-2ubuntu1

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* Added generation of field number constants.

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
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This file contains a list of people who've made non-trivial
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1.314 d-conf 0.24.0-2

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1.322 spdx-exceptions 2.3.0

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1.323 spdx-correct 3.1.1

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1.324 spdx-expression-parse 3.0.1

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1.325 iconv 2.28

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Version 3, 29 June 2007

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1. Source Code.

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1.329 libjpeg-turbo 1.4.2-0ubuntu3.3

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=====

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1.330 libproxy 0.4.11-5ubuntu1

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Version 2.1, February 1999

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1.332 aws4 1.11.0

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1.353 figgy-pudding 3.5.2

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1.355 json-parse-even-better-errors 2.3.1

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1.361 argparse 2.0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.362 aggregate-error 3.1.0

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1.368 nopt 5.0.0

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1.370 helmet 4.6.0

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1.372 adduser 3.118ubuntu5

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1.375 ws 7.4.6

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1.376 musl 1.2.2-r3

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1.377 apk-tools 2.12.5-r1

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1.378 base64-arraybuffer 0.1.4

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1.379 base64id 2.0.0

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1.380 forwarded 0.2.0

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1.381 promise-all-reject-late 1.0.1

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1.382 is-cidr 4.0.2

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1.383 minipass-sized 1.0.3

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1.384 promise-call-limit 1.0.1

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1.385 walk-up-path 1.0.0

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1.386 @npmcli/name-from-folder 1.0.1

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1.387 common-ancestor-path 1.0.1

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1.388 cidr-regex 3.1.1

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1.389 mkdirp-infer-owner 2.0.0

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1.390 minipass-json-stream 1.0.1

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1.391 is-lambda 1.0.1

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1.392 promise-retry 2.0.1

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1.393 err-code 2.0.3

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1.394 popt 1.18-1.el8

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1.395 brotli 1.0.6-3.el8

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1.396 hosted-git-info 2.8.9

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1.397 icu 69

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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1.408 alpine-baselayout 3.2.0-r16

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1.414 json-stringify-nice 1.1.4

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1.415 require-at 1.0.6

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1.419 npmcli-installed-package-contents 1.0.7

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Thu Aug 26 08:15:06 CDT 2010

eviware software ab
NEVER
Runtime
Not for development
win32/x86;linux/ppc64;linux/x86;mac/x86;mac/x64;mac/ppc;linux/x64;win32/x64;linux/ppc
b8w6vsrc9hgb4m4e5gx5521clxzuz8j54xsgeu2g8kyo6065cf4dkw5359w4c6lrteyanrbqqkm5ca6
9971oq2lbv82ldi6fztbiic406o2qj572h6aq6cpivv93myjor98bgeory3fu8hyv0x2azdxjy1ybosc
Version: 3.x
Product: JNIWrapper

Product: JxBrowser
Version: 2.x
Licensed to:
License type: Runtime
License info: Not for development
Expiration date: NEVER
Generation date: 26-08-2010
Platforms: win32/x86;linux/x86;mac/x86;mac/x64;mac/ppc;linux/x64;win32/x64
Company: eviware software ab
SigB: 10adh72idjhnahax9wro9p4dmcrw48ryuib185hji9o4dv00tramvzxtvwyh722an4kqqbllo3ficy77
SigA: y5xzgq75bd5uqagrq0zygnzbfch8758jhnd5e1ekppaar2m2879mmlk1nzzaoste7j8bifqkahlzmsdv

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eviware software ab
NEVER
Runtime
Not for development
win32/x86;win32/x64
qsnu8p4scx5jpkve90det7j8koqdlta080yqf2ve2wvev2ycpij05o79htz53h2rlb78hp8qyhfvolx3
5ugn50g047tv0c855y15xhv75d41wgvki2h74tmjro33dqiv1buw8k7097bpd3jnwnaqea9mb8vhnokk
Version:

2.x

Product: JExplorer

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evicare software ab

NEVER

Runtime

Not for development

win32/x86;win32/x64

cjvzsd9upa7gakblwm3gfwxm0yi33qrxquape7sijv2vag6ps7nvcf60calz8s0rz316x0ujrbouudyi
rvmnudkr7bfraif2niqt05mj52b3mz1y68rps3l3ex7zk9uvwnq0tsyd588l02n0ycv3qaoxvikns8mk

Version: 2.x

Product: ComfyJ

/*

* \$Header: /home/cvs/jakarta-commons/el/LICENSE.txt,v 1.1.1.1 2003/02/04 00:22:24 luehe Exp \$

* \$Revision: 1.1.1.1 \$

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Changes:
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Modifying the order in which keystore types are tested to more gracefully comply with the changes in JEP 229 present in Java 9+.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

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File: src/main/java/org/apache/commons/ssl/TrustMaterial.java

Changes: Replacing direct printStackTrace calls with Logger calls.

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(1)

ExceptionConverter:

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(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt:

<http://www.javaworld.com/javaworld/javatips/jw-javatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'

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(3)

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

com/lowagie/text/pdf/codec/BmpImage.java

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file `com/lowagie/text/pdf/codec/TIFFConstants` and some other TIFF related code is derived from LIBTIFF:

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1.424 read-package-json 2.1.2

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1.425 smart-buffer 4.2.0

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1.426 read-package-json-fast 2.0.3

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1.427 bufferutil 4.0.1

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1.428 http-proxy-middleware 1.3.1

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1.429 is-plain-obj 3.0.0

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1.430 node-gyp-build 3.7.0

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1.431 node-gp 1.12.5

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1.432 utf-8-validate 5.0.2

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1.433 engine.io-parser 4.0.3

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1.434 optional-require 1.1.8

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1.435 berkeley-db 5.3.28-42.el8_4

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1.436 afero 1.0.5

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1.437 alpine-keys 2.4-r0

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1.438 date 0.3.3

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```
# date [![Build Status](https://travis-ci.org/matthewmueller/date.svg?branch=master)](https://travis-ci.org/matthewmueller/date) [![Libscore](http://img.shields.io/badge/libscore-35-brightgreen.svg?style=flat-square)](http://libscore.com/#date)
```

Date is an english language date parser for node.js and the browser. For examples and demos, see: <http://matthewmueller.github.io/date/>

****Update:**** date.js now has much better NLP support thanks to [@kengz](https://github.com/kengz)

Installation

On the server or in the browser:

```
npm install date.js
```

Examples

```
```js
```

date('10 minutes from now')  
date('in 5 hours')  
date('at 5pm')  
date('at 12:30')  
date('at 23:35')  
date('in 2 days')  
date('tuesday at 9am')  
date('monday at 1:00am')  
date('last monday at 1:00am')  
date('tomorrow at 3pm')  
date('yesterday at 12:30am')  
date('5pm tonight')  
date('tomorrow at noon')  
date('next week tuesday')  
date('next  
week tuesday at 4:30pm')  
date('2 weeks from wednesday')  
date('tomorrow night at 9')  
date('tomorrow afternoon')  
date('this morning at 9')  
date('at 12:30pm')  
date('tomorrow at 9 in the morning')  
date('2 years from yesterday at 5pm')  
date('last month')  
date('2nd of January')  
date('1st of March')  
date('1 st of March')  
date('31st of September 4:00am')  
date('1st of January 4:00am')  
date('9th of December 4:00am')  
date('tomorrow afternoon at 4:30pm 1 month from now')  
date('10 seconds ago')  
date('1 minute ago')  
date('2 hours ago')  
date('5 weeks ago')  
date('2 months ago')  
date('1 year ago')  
date('an hour later')  
date('2w from wednesday')  
date('2nd day of January')  
date('two hours later')  
date('a fortnight from wednesday')  
date('a minute ago')  
  
date('at 12:30')  
date('at 12.30')  
date('tuesday at 9')  
date('tomorrow at 15')

...

## ## API

### ### date(str, [offset])

Create a `Date` from a `str`. You may also supply an optional `offset` to the starting date. `offset` defaults to the current date and time.

## ## Tests

To run the tests, you'll need node.js:

```
npm install
make test
```

## ## Contributors

...

```
project : date
repo age : 2 years, 10 months
active : 39 days
commits : 87
files : 17
authors :
 27 Matt Mueller 31.0%
 12 Bulkan Evcimen 13.8%
 8 kengz 9.2%
 3 Eero Norri 3.4%
 2 thomas 2.3%
 2 Patrick Stadler 2.3%
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0.3.3 / 2018-04-07

=====

\* fix the distribution and switch to browserify

0.3.1 / 2016-03-02

=====

\* remove lodash dep

0.3.0 / 2016-03-02

=====

\* update the readme

\* update dist

\* remove map

\* fix travis. include only the lodash methods that we need. minor tweaks to be more consistent with the rest of the  
project.

\* update lodash to find the latest available

\* remove template string for legacy support

\* remove template string for legacy support

\* natural language normalization, fixes #66, 64, 28, 16, 15, 11, 4

\* normalize string at parser using norm.js; add lodash as dep

\* add issues under work

\* fix npm i warning by adding MIT license field

0.2.2 / 2016-01-25

=====

\* fix tonight with minutes issue #72, add test

0.2.1 / 2015-11-20

=====

- \* fix(months): adds no extra day when months in the past

0.2.0 / 2014-02-21

=====

- \* update the distributions
- \* Fix rMonths reg exp
- \* Unparsable strings return the current date instead of tomorrow. Better prediction if parsed date is close to now (same minute).
- \* parsing of str's like `2 minutes ago` working now
- \* Capturing the time unit minutes..months
- \* added travis
- \* correctly parse dates like "1st of March"
- \* parsing of "1st of march" working
- \* Extend at hour to support 24 hour clock and add support for hour.minute format
- \* 12:30pm no longer resolves to 12:30am. fixes: #6
- \* fixed an issue that prevented Monday at 10 am to be matched correctly

0.1.1 / 2013-05-21

=====

- \* fixed: infinite loop for non-matching characters

0.1.0 / 2013-05-20

=====

- \* fixed: dates in the past
- \* added: ago
- \* added: implied meridiem
- \* added: months
- \* added: tests

0.0.1 / 2013-05-13

=====

- \* initial commit

Found in path(s):

\* /opt/cola/permits/1218975875\_1635173735.23/0/date-js-0-3-3-tgz/package/History.md

# 1.439 cron-parser 3.5.0

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## 1.442 numbered 1.1.0

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## 1.443 os 0.1.2

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# 1.444 swagger-model-validator 3.0.21

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```

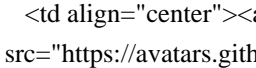
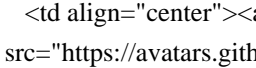
```
<!-- markdownlint-disable -->
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```
<table>
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```
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```
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<sub>Brody
Dunn</sub>
 <a
href="https://github.com/BrodyDunn/swagger-model-validator/issues?q=author%3Abrodyd" title="Bug
reports"> <a href="https://github.com/BrodyDunn/swagger-model-validator/commits?author=brodyd"
title="Code"> <a href="https://github.com/BrodyDunn/swagger-model-
validator/commits?author=brodyd" title="Documentation"> <a href="#example-brodyd"
title="Examples"> <a href="#projectManagement-brodyd" title="Project
Management"> <a href="https://github.com/Brody
Dunn/swagger-model-validator/pulls?q=is%3Apr+reviewed-by%3Abrodyd" title="Reviewed Pull Requests">
 <a href="https://github.com/BrodyDunn/swagger-model-
validator/commits?author=brodyd" title="Tests"> <a href="#userTesting-brodyd" title="User
Testing"></td>
```

<a href="https://github.com/ssreedharan">    </a>	<a href="https://github.com/ssreedharan">ssreedharan</a> <a href="https://github.com/BrodyDunn/swagger-model-validator/commits?author=ssreedharan">Code</a> <a href="#">#design-ssreedharan</a> <a href="#">#ideas-ssreedharan</a> Ideas, Planning, & Feedback
<a href="http://hugoduraes.com/">    </a>	<a href="http://hugoduraes.com/">Hugo Dures</a> <a href="https://github.com/BrodyDunn/swagger-model-validator/commits?author=hugoduraes">Code</a>
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<a href="https://github.com/rogermui">    <b>Roger Mui</b> </a> <a href="https://github.com/BrodyDunn/swagger-model-validator/commits?author=rogermui" title="Code">Code</a>

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<!-- markdownlint-restore -->
<!-- prettier-ignore-end -->
```

```
<!-- ALL-CONTRIBUTORS-LIST:END -->
```

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 Copyright 2011 by antimatter15 (antimatter15@gmail.com)

Based on micro-bunzip by Rob Landley (rob@landley.net).

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.450 asn1 0.2.6

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## 1.451 busybox 1.33.1-r6

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Julian Seward, Cambridge, UK.

[jseward@bzip.org](mailto:jseward@bzip.org)

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.452 spdx-license-ids 3.0.11

### 1.452.1 Available under license :

```
root = true
```

```
[*]
```

```
charset = utf-8
```

```
end_of_line = lf
```

```
indent_style = tab
```

```
tab_width = 2
```

```
insert_final_newline = true
```

```
trim_trailing_whitespace = true
```

```
[*.{md,yml}]
```

```
indent_style = space
```

```
[*.md]
```

```
trim_trailing_whitespace = false
```

```

```

```
name: 'Check Latest SPDX License List'
```

```
on:
```

```
workflow_dispatch:
```

```
 inputs: {}
```

```
schedule:
```

```
 - cron: '0 0 */7 * *'
```

```
jobs:
```

```
 check:
```

```
 runs-on: ubuntu-latest
```

```
 steps:
```

```
- uses: actions/checkout@v2
- uses: actions/setup-node@v1
- run: npm run latest
spdx-license-ids
```

```
[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinmn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinmn/spdx-license-ids)
```

A list of [\[SPDX license\]](https://spdx.org/licenses/) identifiers

## ## Installation

[\[Download JSON directly\]](https://raw.githubusercontent.com/shinmn/spdx-license-ids/main/index.json), or [\[use\]](https://docs.npmjs.com/cli/install) `npm` [\[https://docs.npmjs.com/about-npm/\]](https://docs.npmjs.com/about-npm/):

```
...
npm install spdx-license-ids
...
```

## ## [\[Node.js\]](https://nodejs.org/) API

```
require('spdx-license-ids')
```

Type: ``string[]``

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true
```

```
ids.includes('GPL-3.0'); //=> false
...`
```

```
### require('spdx-license-ids/deprecated')
```

Type: ``string[]``

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
```

```
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
...

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* text=auto

name: Node.js CI
on: [push]
jobs:
 test:
 runs-on: ubuntu-latest
 steps:
 - uses: actions/checkout@v2
 - uses: actions/setup-node@v1
 - run: npm ci
 - run: npm test
[* .workflow]
indent_style = space
```

# 1.453 commander 6.2.0

## 1.453.1 Available under license :

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## 1.454 types-cookie 0.4.1

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## 1.455 ubuntu-keyring 2021.03.26

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```
$properties->license = License::schema();
```

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```
* /opt/cola/permits/1231169960_1637613933.15/0/swaggest-php-json-schema-v0-4-0-0-gdfb0dd7-zip/swaggest-php-json-schema-dfb0dd7/src/SwaggerSchema/Info.php
```

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## 1.461 jsprim 1.4.2

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## 1.464 pcre 8.42-6.el8

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.465 libsepol 2.9-3.el8

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## 1.573 object-keys 1.0.12

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## 1.574 spdx-license-ids 3.0.5

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```
workflow "Test" {
 on = "push"
 resolves = ["npm"]
}
```

```
action "npm" {
```

```
uses = "shinmn/actions-npm-alpine@1.0.0"
args = "install-ci-test"
}
root = true
```

```
[*]
charset = utf-8
end_of_line = lf
indent_style = tab
tab_width = 2
insert_final_newline = true
trim_trailing_whitespace = true
```

```
[*.{md,yml}]
indent_style = space
```

```
[*.md]
trim_trailing_whitespace = false
* text=auto
spdx-license-ids
```

```
[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
[![Github Actions](https://action-badges.now.sh/shinmn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinmn/spdx-license-ids)
```

A list of [\[SPDX license\]](https://spdx.org/licenses/) identifiers

## ## Installation

[\[Download JSON directly\]](https://raw.githubusercontent.com/shinmn/spdx-license-ids/master/index.json), or  
[\[use\]](https://docs.npmjs.com/cli/install) `[npm]`:

...

```
npm install spdx-license-ids
...
```

## ## [\[Node.js\]](https://nodejs.org/) API

```
require('spdx-license-ids')
```

Type: ``string[]``

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```



```
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true
```

```
ids.includes('GPL-3.0'); //=> false
...

```

```
### require('spdx-license-ids/deprecated')
```

```
Type: `string[]`
```

Deprecated license IDs.

```
````javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
...

```

```
License
```

```
[Creative Commons Zero v1.0 Universal](https://creativecommons.org/publicdomain/zero/1.0/deed)
[*].workflow]
indent_style = space
```

## 1.575 read-cmd-shim 1.0.5

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# 1.576 pacote 9.5.12

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# 1.577 npm-registry-fetch 4.0.7

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# 1.579 read-installed 4.0.3

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# 1.580 resolve 1.10.0

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## 1.581 stream-iterate 1.2.0

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## 1.582 iferr 1.0.2

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# 1.585 nan 1.3.2

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# 1.586 libnpmhook 5.0.3

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Found in path(s):

\* /opt/cola/permits/1238609223\_1638977607.74/0/safe-json-stringify-1-2-0-tgz/package/README.md

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## 1.631 tslib 1.14.1

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ISC

# 1.633 tar-stream 2.2.0

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## 1.634 path 0.12.7

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```

```
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## 1.637 qs 6.5.3

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## 1.641 strnum 1.0.5

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http-proxy-agent

=====

### An HTTP(s) proxy `http.Agent` implementation for HTTP

[![Build Status](https://github.com/TooTallNate/node-http-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-http-proxy-agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `http` module.

\_\_Note:\_\_ For HTTP proxy usage with the `https` module, check out [node-https-proxy-agent](https://github.com/TooTallNate/node-https-proxy-agent).

Installation

-----

Install with `npm`:

```
``` bash
$ npm install http-proxy-agent
```
```

Example

-----

```
``` js
var url = require('url');
var http = require('http');
var HttpProxyAgent = require('http-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy
server %j', proxy);

// HTTP endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'http://nodejs.org/api/';
console.log('attempting to GET %j', endpoint);
var opts = url.parse(endpoint);
```

```
// create an instance of the `HttpProxyAgent` class with the proxy server information
var agent = new HttpProxyAgent(proxy);
opts.agent = agent;

http.get(opts, function (res) {
  console.log("response" event!", res.headers);
  res.pipe(process.stdout);
});
...

```

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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node-http-proxy

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1.658 npm-audit-report 1.3.3

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1.661 gentle-fs 2.3.1

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1.663 cyrus-sasl 2.1.27-6.el8_5

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1.665 columnify 1.6.0

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1.666 npmcli-ci-detect 2.0.0

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1.668 spf13-cobra v1.4.0

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1.669 minimist 1.2.6

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1.673 sshpk 1.17.0

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1.676 graceful-fs 4.2.10

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1.679 encoding 0.1.12

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1.680 make-fetch-happen 5.0.2

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1.684 dezalgo 1.0.4

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1.685 cookie 0.3.1

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1.686 semver 7.3.7

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1.687 https-proxy-agent 5.0.1

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https-proxy-agent

=====

> Temporary fork that fixes the issue [#52](https://github.com/TooTallNate/node-https-proxy-agent/issues/52).

```
### An HTTP(s) proxy `http.Agent` implementation for HTTPS
[![Build Status](https://github.com/TooTallNate/node-https-proxy-agent/workflows/Node%20CI/badge.svg)](https://github.com/TooTallNate/node-https-proxy-
```

agent/actions?workflow=Node+CI)

This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the `[CONNECT HTTP method][CONNECT]`, which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the `CONNECT HTTP method`, it also works with other protocols that use this method when connecting over proxies (i.e. `WebSockets`).

See the

"Examples" section below for more.

Installation

Install with `npm`:

```
``` bash
$ npm install https-proxy-agent
```
```

Examples

`https` module example

```
``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'https://graph.facebook.com/tootallnate';
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;
```
```

```
https.get(options, function (res) {
  console.log('"response" event!', res.headers);
  res.pipe(process.stdout);
});
```
```

#### `ws` WebSocket connection example

```
``` js
var url = require('url');
var WebSocket
  = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log('"message" event! %j %j', data, flags);
  socket.close();
});
```
```

API

---

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class

implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the `[HTTP CONNECT method][CONNECT]`.

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

- \* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
- \* `port` - Number - Proxy port to connect to. Required.
- \* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
- \* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
- \* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: [http://en.wikipedia.org/wiki/HTTP\\_tunnel#HTTP\\_CONNECT\\_Tunneling](http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling)

Found in path(s):

\* /opt/cola/permits/1307940101\_1649962714.49/0/https-proxy-agent-5-0-1-tgz/package/README.md

# 1.688 fs-extra 10.1.0

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# 1.689 validate-npm-package-name 4.0.0

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# 1.695 icu 71

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```

```
Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

```
Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

```
Compiler switch to embed a runtime search path
```



```

LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao

Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

Bind internal references

```

```
LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

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End BSD-specific setup
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work

during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because

of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Ty Coon, President of Vice
```

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The

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

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```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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## 1.712 gpgme 1.13.1-11.el8

### 1.712.1 Available under license :

```
#+TITLE: GPGME Python Bindings HOWTO Examples
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}
```

\* Examples

```
:PROPERTIES:
:CUSTOM_ID: gpgme-python3-examples
:END:
```

The contents of this directory are the examples included in the /GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each



script is explicitly for Python 3 and specifically for Python 3.4 or later.

Some of these scripts may work with Python 2.7, but there are no guarantees. They will include the relevant imports from the `=__future__=` module to facilitate that if possible.

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:PROPERTIES:

:CUSTOM\_ID: copyright-and-license

:END:

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:END:

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```
(21:protected-private-key(3:dsa(1:p129:_d8|po3s@!WGUAOAXRC$_[8SN:y|o?2[_pVxn(kOc\Bk0zu&FnK)(1:q21:
vBeOP\p)(1:g129:fU/e(2hp@hjc2uE=Sg GO;ZkIyFnGM!GsG@
= _SZkII)(1:y128:K:9tA]4SU1 }sG`nZpx/imV^>A;V%?5!!sS{!=-6@|
=d
)(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:Li7:6452224)16:,kO{,}80:z7OCG/sB48(H9%*ojSO
OGSma`YUsIh<_)(12:protected-at15:20130812T105134)))
```

```

cython
;;; gpgme-package.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify
;;; it under the terms of the GNU General Public License as published
;;; by the Free Software Foundation; either version 2 of the License,
;;; or (at your option) any later version.
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;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; Conventions:
;;;
;;; gpg-error is used for error handling.
;;;
;;; Standard I/O streams are used for input and output.

(defpackage #:gpgme
 (:use #:common-lisp #:cffi #:gpg-error)
 (:import-from #:trivial-garbage
 #:finalize)
 (:export #:check-version
 #:*version*
 #:context
 #:protocol
 #:armorp
 #:textmodep
 #:+include-certs-default+
 #:include-certs
 #:keylist-mode
 #:signers
 #:sig-notations
 #:with-context
 #:key-data
 #:get-key
 #:op-encrypt
 #:op-decrypt
 #:op-sign

```

```
#:op-verify
#:op-import
#:op-export))
\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename index.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@end ifnottex

@menu
* GPGME Python Bindings::

@detailmenu
--- The Detailed Node Listing ---

GPGME Python Bindings

* Contents::

@end detailmenu
@end menu

@node GPGME Python Bindings
@chapter GPGME Python Bindings

@menu
* Contents::
@end menu

@node Contents
@section Contents

@itemize
```

@item  
@uref{short-history, A short history of the project}  
@item  
@uref{what-is-new, What's New}  
@itemize  
@item  
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)  
@end itemize  
@item  
@uref{what-was-new, What Was New}  
@item  
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}  
@end  
itemize

@bye

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

\* gpgme.texi (I/O Callback Example): Fix example code.

\* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

\* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

\* uiserver.texi (UI Server Encrypt): Add --expect-sign option to PREP\_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

\* gpgme.texi (Exporting Keys): Document gpgme\_op\_export\_keys.

(Importing Keys): Document gpgme\_op\_import\_keys.

(Data Buffer Meta-Data): Document URL encodings.

2009-05-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Document selftest error.  
(Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document  
GPGME\_ENCRYPT\_NO\_ENCRYPT\_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Information): Replace path by file\_name.

2008-11-28 Werner Koch <wk@g10code.com>

\* gpgme.texi (Listing Keys): Change description of the return  
value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

\* uiserver.texi (Miscellaneous UI Server Commands): Add option  
--protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

\* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

\* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Cancellation): Document gpgme\_cancel\_async.

2008-06-25

Werner Koch <wk@g10code.com>

\* gpgme.texi (Listing Keys): Updated example to the current API.  
Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

\* uiserver.texi (Miscellaneous UI Server Commands): Describe  
START\_CONF\_DIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

\* gpgme.texi: Use @copying command. Change license to GPLv3. Include protocol specs from GpgOL and GPGEEx. Minor cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (File Based Data Buffers): Document the need for blocking operations.  
(Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Rename snippet function to `init_gpgme`.  
(I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Document that data encoding affects some output data objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Protocols and Engines):  
Document `GPGME_PROTOCOL_UNKNOWN`.

2007-09-11 Werner Koch <wk@g10code.com>

\* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

\* gpgme.texi (Verify): Describe `chain_model`.

2007-07-12 Werner Koch <wk@g10code.com>

\* gpgme.texi (Library Version Check): Add remark that the socket layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

\* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Fix documentation of  
gpgme\_strerror\_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

\* gpgme.texi (Data Buffer I/O Operations): Fixed entry for  
gpgme\_data\_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Destroying Data Buffers): Clarify that  
gpgme\_data\_release\_and\_get\_mem destroys DH unconditionally.

2005-03-24

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Make example code compatible  
to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix inverted condition in  
description.

2005-12-20 Werner Koch <wk@g10code.com>

\* gpgme.texi (Verify): Document pka\_trust.

2005-12-06 Werner Koch <wk@g10code.com>

\* gpgme.texi (Key Management): Updated to match the fixes for  
subkey fingerprints and the secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Destroying Data Buffers): Document gpgme\_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Add the new member notations of  
gpgme\_sig\_key\_t.  
(Key Listing Mode): Document GPGME\_KEYLIST\_MODE\_SIG\_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Enclose all return parameters of deftypefuns in curly brackets.

\* gpgme.texi (Signature Notation Data): New section.

(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data): New subsections.

\* gpgme.texi: Replace plaintext\_filename with file\_name.

\* gpgme.texi (Key Management): Document is\_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Decrypt): Add plaintext\_filename to gpgme\_decrypt\_result\_t.

(Verify): Likewise for gpgme\_verify\_result\_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Add information about new fields in gpgme\_signature\_t.

\* gpgme.texi (Decrypt): Add gpgme\_recipient\_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Fix return type of gpgme\_set\_keylist\_mode.

Reported by "Sergio" <ml\_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Included Certificates): Document GPGME\_INCLUDE\_CERTS\_DEFAULT.

2005-01-12 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Configuration): New section.

(Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>



\* lesser.texi (Library Copying): Change from @appendixsec to @appendix.  
\* gpgme.texi (Features): Change reference to GPL to one to LGPL.

\* Makefile.am: Change license to LGPL.  
(gpgme\_TEXINFOS): Replace gpl.texi with lesser.texi.

\* gpgme.texi: Change license to LGPL (also for documentation of GPGME's license).  
\* lesser.texi: New file.  
\* gpl.texi: File removed.

\* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (gpgme\_TEXINFOS): Remove fdl.texi.  
\* gpgme.texi: Do not include fdl.texi. Change license to GPL.  
\* fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Change type of keylist\_mode in gpgme\_key\_t to gpgme\_keylist\_mode\_t.

2004-09-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Document GPG\_ERR\_NOT\_IMPLEMENTED.

\* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

\* gpgme.texi (Verify): Fix gpgme\_get\_key example (ancient force\_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Elaborate on the length restrictions on search patterns.

\* gpgme.texi (Decrypt and Verify): Document the NO\_DATA error code.

(Verify): Document the relationship between gpgme\_op\_verify\_result and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.text (Verify): Document GPG\_ERR\_CERT\_REVOKED status.

\* gpgme.texi (Decrypt): Add note about new field wrong\_key\_usage of gpgme\_decrypt\_result\_t.

\* gpgme.texi (Key Management): Add note about new field keylist\_mode of gpgme\_key\_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Correct type of member wrong\_key\_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

\* gpgme.texi (Verify): Fix type of gpgme\_op\_verify\_result.

\* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Library Version Check): Fix the instruction when to set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Key Listing Mode): Doc KEYLIST\_MODE\_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

\* gpgme.texi: A couple of small fixes regarding the Largfile Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Largefile Support): New section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Rename member class in gpgme\_key\_sig\_t to sig\_class.  
(Creating a Signature): Likewise for gpgme\_signature\_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

\* gpgme.texi (Listing Keys): Minor clarification for gpgme\_get\_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Correct documentation on memory synchronization requirement.

\* gpgme.texi (Locale): New section.  
(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Add gpgme\_strerror\_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

\*  
gpgme.texi (Header): We don't use the assuan namespace anymore.  
Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Change type of member class to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Get error code from SIG->status in the code for gpgme\_get\_sig\_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Add can\_authenticate flag.

\* gpgme.texi (Listing Keys): Document GPG\_ERR\_AMBIGUOUS\_NAME for gpgme\_get\_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (EXTRA\_DIST): Remove variable.

\* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only possible with symmetric encryption, change the wording to reflect that.

\* gpgme.texi (Creating a Signature): Document GPG\_ERR\_UNUSABLE\_SECKEY.

\* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign operations in result function.

(Creating a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Remove word duplication.

(Listing Keys): Remove mentioning of force argument.

(Verify): Don't mention r\_stat. Fix some typos.

(Decrypt and Verify): Correct info how to get the result. Don't mention r\_stat.

(Manipulating Data Buffers): Fix documentation of return value.

(Listing Keys): Update examples.

(Decrypt): Result might also be available when operation failed.

(Verify): Result might also be available when operation failed.

All spotted by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Management): Clarify difference between can\_sign and can\_certify.  
(Information About Keys): Likewise for GPGME\_ATTR\_CAN\_SIGN and GPGME\_ATTR\_CAN\_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Progress Meter Callback): Change return type of gpgme\_progress\_cb\_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Add 2003 to copyright notice.  
  
\* gpgme.texi (Header): Fix name space documentation on libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Remove reference to gpgme\_recipients\_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Crypto Operations): Rename gpgme\_invalid\_user\_id\_t to gpgme\_invalid\_key\_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Change error codes to GPG\_ERR\_\* variants.  
(Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Exporting Keys): Change and document prototypes. Add new gpgme\_op\_export\_ext and gpgme\_op\_export\_ext\_start variants.  
(Selecting Recipients): Section removed.  
(Encrypting a Plaintext): Change prototypes and document the changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

\*

gpgme.texi (Exporting Keys): Change argument type from  
gpgme\_recipient\_t to gpgme\_user\_id\_t.  
(Encrypting a Plaintext): Likewise.  
(Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Protocol Selection): Do not use @acronym in @node  
because that breaks texi2dvi.

\* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add  
\_GPGME to namespace prefix.

\* gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Document what happens if key is not  
found.

\* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Remove reference to  
gpgme\_get\_op\_info.

(Detailed Results): Subsection removed.

\* gpgme.texi (Key Listing Mode): Add GPGME\_KEYLIST\_MODE\_SIGS.

(Manipulating

Keys): Add obsolescence note.

(Key Signatures): Likewise.

(Information About Keys): Likewise.

(Key Management): Add new data types GpgmeSubkey, GpgmeKeySig,

GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Remove force\_update argument from  
gpgme\_get\_key.

\* gpgme.texi (Trust Item Management): Add data members of  
GpgmeTrustItem type.

(Information About Trust Items): Add note about obsolescence.

(Manipulating Trust Items): Add gpgme\_trust\_item\_ref and

gpgme\_trust\_item\_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Rewritten to take into account new and deprecated functions and data types.

\* gpgme.texi (Decrypt): Descript gpgme\_op\_decrypt\_result and GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Add info about GpgmeEncryptResult and gpgme\_op\_encrypt\_result.

\* gpgme.texi  
(Creating a Signature): Add info about GpgmeNewSignature, GpgmeSignResult and gpgme\_op\_sign\_result.  
(Crypto Operations): Add GpgmeInvalidUserID.  
(Algorithms): New chapter.

\* gpgme.texi (Deleting Keys): Document GPGME\_Ambiguous\_Specification.  
(Error Values): Remove GPGME\_Invalid\_Type and GPGME\_Invalid\_Mode.  
Add GPGME\_Unknown\_Reason, GPGME\_Not\_Found, GPGME\_Ambiguous\_Specification, GPGME\_Wrong\_Key\_Usage, GPGME\_Key\_Revoked, GPGME\_Key\_Expired, GPGME\_No\_CRL\_Known, GPGME\_CRL\_Too\_Old, GPGME\_Policy\_Mismatch, GPGME\_No\_Secret\_Key, GPGME\_Key\_Not\_Trusted, GPGME\_Issuer\_Missing, GPGME\_Chain\_Too\_Long, GPGME\_Unsupported\_Algorithm, GPGME\_Sig\_Expired, GPGME\_Bad\_Signature, GPGME\_No\_Public\_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Change GPGME\_IMPORT\_PRIVATE to GPGME\_IMPORT\_SECRET.

\* gpgme.texi (Importing Keys): Remove note about gpgme\_get\_op\_info.  
(Detailed Results): Remove note about import.

\* gpgme.texi (Importing Keys): Add documentation for GpgmeImportStatus, GpgmeImportResult and gpgme\_op\_import\_result.

\* gpgme.texi (Generating Keys): Fix documentation of public and secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating Keys): Document changed gpgme\_op\_genkey and new gpgme\_op\_genkey\_result function. Document GpgmeGenKeyResult data type.

\* gpgme.texi (Error Values): Rename GPGME\_No\_Passphrase to GPGME\_Bad\_Passphrase.

\* gpgme.texi (Decrypt): Likewise.

(Decrypt and Verify): Likewise.

(Creating a Signature): Likewise.

(Encrypting a Plaintext): Likewise.

\* gpgme.texi (Error Values): Rename GPGME\_No\_Recipients to GPGME\_No\_UserID and GPGME\_Invalid\_Recipient to GPGME\_Invalid\_UserID.

(Encrypting a Plaintext): Likewise.

\* gpgme.texi (Error Values): Remove GPGME\_Busy and GPGME\_No\_Request.

(Listing Keys): Likewise.

(Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Cancelling an Operation): Removed.

(Passphrase

Callback): Document new type for GpgmePassphraseCb.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Engine Information): Rename member part to file\_name.

\* gpgme.texi (Protocols and Engines): Document gpgme\_get\_protocol\_name.

\* gpgme.texi (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (I/O Callback Interface): Document new even GPGME\_EVENT\_START.

(Waiting For Completion): Document new possible return values.

(I/O Callback Interface): Document return type of GpgmeIOCb.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Hooking Up Into Idle Time): Section removed.



2002-12-24 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Verify): Drop R\_STAT argument in gpgme\_op\_verify.
- \* gpgme.texi (Decrypt and Verify): Likewise for gpgme\_op\_decrypt\_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Information About Keys): Document that GPGME\_ATTR\_IS\_SECRET is not representable as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Key Signatures): New section. (Listing Keys): Add gpgme\_get\_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Memory Based Data Buffers): New subsection. (File Based Data Buffers): Likewise. (Callback Based Data Buffers): Likewise. (Manipulating Data Buffers): Update interfaces. Add gpgme\_data\_seek.
- \* gpgme.texi (Engine Version Check): Remove gpgme\_check\_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Generating Keys): Document new argument to gpgme\_op\_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Verify): Fix prototype of gpgme\_get\_sig\_key. Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21

Marcus Brinkmann <marcus@g10code.de>

- \* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Document gpgme\_op\_import\_ext.

\* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Information About Keys): Changed GPGME\_ATTR\_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Deleting Keys): Say that secret keys might not be deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Information About Keys): Document (badly) the new key attributes.

\* gpgme.texi (Manipulating Data Buffers): Mention that backend tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Run Control): Update this section.  
(Waiting For Completion): Likewise for this subsection.  
(Cancelling an Operation): Likewise for this subsection.  
(Using External Event Loops): New subsection with several subsubsections.

2002-06-28

Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Remove item about the need to synchronize anything against gpgme\_wait (except gpgme\_wait itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Information About Keys): Fix documentation for IDX.  
(Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Importing Keys): Document the return value -1 of gpgme\_op\_import.

2002-06-20 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Verify): Document attribute GPGME\_ATTR\_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Some typographical corrections throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Overview): Replace note about thread-safeness.  
(Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Manipulating Data Buffers): Changed some data types to void\*.

(Protocol Selection): Added gpgme\_get\_protocol.

(Verify): Updated to include the new attribute functions and status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Document that either return argument can be NULL.  
(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase Callback): Fix small typo. Document the new function gpgme\_get\_passphrase\_cb.  
(Progress Meter Callback): Document the new function gpgme\_get\_progress\_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Fix function name. Reported by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (direntry): End index entry with a full stop. Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

\* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document symmetric encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Error Strings): Add example.  
\* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\*  
gpgme.texi (Information About Keys): Document GPGME\_ATTR\_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Verify): Document verification of normal and cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Listing Keys): Document gpgme\_op\_keylist\_ext\_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document GPGME\_Invalid\_Recipients. (Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Encrypting a Plaintext): Document gpgme\_op\_encrypt\_sign and gpgme\_op\_encrypt\_sign\_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating a Signature): Add a note about certificates to include. (Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Detailed Results): Remove literal tags. (Generating Keys): Update documentation.

\* gpgme.texi (Generating Keys): Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Waiting For Completion): Adjust doc to changes in the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating Keys): Document error at creation failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Importing Keys): Add reference to gpgme\_get\_op\_info.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Some spell checking.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: Add all the gpgme\_op\_\*\_start functions.  
Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Run Control): New section.  
(Verify): Document gpgme\_get\_notation.  
(More Information):  
New section describing gpgme\_get\_op\_info.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's  
R\_HD type from void\* to void\*\*.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Creating data buffers): Change  
gpgme\_data\_new\_from\_filepart's LENGTH type from off\_t to size\_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi (Generating keys): New subsection.  
(Exporting keys): Likewise.  
(Importing keys): Likewise.  
(Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.texi: g10Code -> g10 Code

\* gpgme.texi (Top): Complete detailmenu.

\* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

\* ChangeLog: New file.  
\* gpgme.texi: Likewise.  
\* gpl.texi: Likewise.  
\* fdl.texi: Likewise.  
\* Makefile.am (info\_TEXINFOS): New variable.  
(gpgme\_TEXINFOS): Likewise.

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(21:protected-private-key(3:elg(1:p129:|B36I(s7}+ZJ/pvE;"tg7N ca"Gxvnyu&bB#h'7=89&oG  
R<hO)(1:g1:)(1:y128:Ji]WU\_UP}AQ\YMhAl|2e{ \_tcMNDg][QnWsK 4pY{ \$bDCs)(9:protected25:openpgp-s2k3-  
sha1-aes-cbc((4:sha18:JcE7:6452224)16: i[Q\*vK)192:FJA!O!ZAF  
biJ&Tsb!t  
&9@R\~V+x>?sedDz-W(yqf?u^e?s1saV8<T0:tC5%ZMh?\$|,y\_e[1D)(12:protected-at15:20130812T105135)))  
(private-key  
(oid.1.2.840.113549.1.1.1  
(n  
#00e0ce96f90b6c9e02f3922beada93fe50a875eac6bcc18bb9a9cf2e84965caa2d1ff95a7f542465c6c0c19d276e4526ce  
048868a7a914fd343cc3a87dd74291ffc565506d5bbb25cbac6a0e2dd1f8bcaab0d4a29c2f37c950f363484bf269f78914  
40464baf79827e03a36e70b814938eebdc63e964247be75dc58b014b7ea251#)  
(e #010001#)  
(d  
#046129F2489D71579BE0A75FE029BD6CDB574EBF57EA8A5B0FDA942CAB943B117D7BB95E5D28875E0F  
9FC5FCC06A72F6D502464DABDED78EF6B716177B83D5BDC543DC5D3FED932E59F5897E92E6F58A0F334  
24106A3B6FA2CBF877510E4AC21C3EE47851E97D12996222AC3566D4CCB0B83D164074ABF7DE655FC244  
6DA1781#)  
(p  
#00e861b700e17e8afe6837e7512e35b6ca11d0ae47d8b85161c67baf64377213fe52d772f2035b3ca830af41d8a4120e  
1c1c70d12cc22f00d28d31dd48a8d424f1#)  
(q  
#00f7a7ca5367c661f8e62df34f0d05c10c88e5492348dd7bddc942c9a8f369f935a07785d2db805215ed786e4285df16  
58eed3ce84f469b81b50d358407b4ad361#)  
(u  
#304559a9ead56d2309d203811a641bb1a09626bc8eb36fffa23c968ec5bd891eebbafc73ae666e01ba7c8990bae06cc2  
bbe10b75e69fcacb353a6473079d8e9b#)  
)  
)

```

libpgpme.vers - List of symbols to export.
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#
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#
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the License, or (at your option) any later version.
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#-----
Please remember to add new functions also to gpgme.def
#-----

GPGME_1.1 {
global:
 gpgme_set_engine_info;

 gpgme_ctx_get_engine_info;
 gpgme_ctx_set_engine_info;

 gpgme_data_set_file_name;
 gpgme_data_get_file_name;
 gpgme_data_identify;

 gpgme_sig_notation_clear;
 gpgme_sig_notation_add;
 gpgme_sig_notation_get;

 gpgme_free;

 gpgme_op_getauditlog_start;
 gpgme_op_getauditlog;

 gpgme_conf_release;
 gpgme_conf_arg_new;
 gpgme_conf_arg_release;
 gpgme_conf_opt_change;
 gpgme_op_conf_load;
 gpgme_op_conf_save;

```



gpgme\_op\_conf\_dir;  
  
gpgme\_cancel\_async;  
  
gpgme\_op\_assuan\_result;  
gpgme\_op\_assuan\_transact;  
gpgme\_op\_assuan\_transact\_start;  
  
gpgme\_check\_version\_internal;  
  
gpgme\_io\_read;  
gpgme\_io\_write;  
  
gpgme\_result\_ref;  
gpgme\_result\_unref;  
  
gpgme\_op\_import\_keys;  
gpgme\_op\_import\_keys\_start;  
gpgme\_op\_export\_keys;  
gpgme\_op\_export\_keys\_start;  
  
gpgme\_op\_assuan\_transact\_ext;  
  
gpgme\_wait\_ext;  
  
gpgme\_op\_vfs\_mount\_result;  
gpgme\_op\_vfs\_mount;  
gpgme\_op\_vfs\_create;  
  
gpgme\_key\_from\_uid;  
gpgme\_set\_sub\_protocol;  
gpgme\_get\_sub\_protocol;  
  
gpgme\_op\_passwd\_start;  
gpgme\_op\_passwd;  
  
gpgme\_set\_global\_flag;  
  
gpgme\_io\_writen;  
  
gpgme\_set\_pinentry\_mode;  
gpgme\_get\_pinentry\_mode;  
  
gpgme\_get\_dirinfo;  
  
gpgme\_op\_spawn\_start;  
gpgme\_op\_spawn;

```
gpgme_set_offline;
gpgme_get_offline;

gpgme_set_status_cb;
gpgme_get_status_cb;

gpgme_pubkey_algo_string;
gpgme_set_ctx_flag;
gpgme_get_ctx_flag;
gpgme_data_set_flag;

gpgme_op_createkey_start;
gpgme_op_createkey;
gpgme_op_createsubkey_start;
gpgme_op_createsubkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_revuid_start;
gpgme_op_revuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

gpgme_addrspec_from_uid;

gpgme_set_sender;
gpgme_get_sender;

gpgme_op_query_swdb;
gpgme_op_query_swdb_result;

gpgme_op_set_uid_flag_start;
gpgme_op_set_uid_flag;

gpgme_op_decrypt_ext;
gpgme_op_decrypt_ext_start;

gpgme_data_new_from_estream;

};
```

```
GPGME_1.0 {
 global:
 gpgme_check_version;
```

gpgme\_get\_engine\_info;  
gpgme\_engine\_check\_version;

gpgme\_err\_code\_from\_errno;  
gpgme\_err\_code\_to\_errno;  
gpgme\_err\_make\_from\_errno;  
gpgme\_error\_from\_errno;  
gpgme\_strerror;  
gpgme\_strerror\_r;  
gpgme\_strsource;

gpgme\_data\_get\_encoding;  
gpgme\_data\_new;  
gpgme\_data\_new\_from\_cbs;  
gpgme\_data\_new\_from\_fd;  
gpgme\_data\_new\_from\_file;  
gpgme\_data\_new\_from\_filepart;  
gpgme\_data\_new\_from\_mem;  
gpgme\_data\_new\_from\_stream;  
gpgme\_data\_read;  
gpgme\_data\_release;  
gpgme\_data\_release\_and\_get\_mem;  
gpgme\_data\_seek;  
gpgme\_data\_set\_encoding;  
gpgme\_data\_write;

gpgme\_get\_protocol\_name;  
gpgme\_hash\_algo\_name;  
gpgme\_pubkey\_algo\_name;

gpgme\_new;  
gpgme\_get\_armor;  
gpgme\_get\_include\_certs;  
gpgme\_get\_io\_cbs;  
gpgme\_get\_keylist\_mode;  
gpgme\_get\_passphrase\_cb;  
gpgme\_get\_progress\_cb;  
gpgme\_get\_protocol;  
gpgme\_get\_textmode;  
gpgme\_release;  
gpgme\_set\_armor;  
gpgme\_set\_include\_certs;  
gpgme\_set\_io\_cbs;  
gpgme\_set\_keylist\_mode;  
gpgme\_set\_locale;  
gpgme\_set\_passphrase\_cb;  
gpgme\_set\_progress\_cb;  
gpgme\_set\_protocol;

gpgme\_set\_textmode;  
gpgme\_signers\_add;  
gpgme\_signers\_clear;  
gpgme\_signers\_count;  
gpgme\_signers\_enum;

gpgme\_key\_ref;  
gpgme\_key\_unref;  
gpgme\_key\_release;

gpgme\_trust\_item\_ref;  
gpgme\_trust\_item\_unref;

gpgme\_cancel;  
gpgme\_op\_card\_edit;  
gpgme\_op\_card\_edit\_start;  
gpgme\_op\_decrypt;  
gpgme\_op\_decrypt\_result;  
gpgme\_op\_decrypt\_start;  
gpgme\_op\_decrypt\_verify;  
gpgme\_op\_decrypt\_verify\_start;  
gpgme\_op\_delete;  
gpgme\_op\_delete\_start;  
gpgme\_op\_delete\_ext;  
gpgme\_op\_delete\_ext\_start;  
gpgme\_op\_edit;  
gpgme\_op\_edit\_start;  
gpgme\_op\_encrypt;  
gpgme\_op\_encrypt\_start;  
gpgme\_op\_encrypt\_ext;  
gpgme\_op\_encrypt\_ext\_start;  
gpgme\_op\_encrypt\_sign;  
gpgme\_op\_encrypt\_sign\_ext;  
gpgme\_op\_encrypt\_sign\_start;  
gpgme\_op\_encrypt\_sign\_ext\_start;  
gpgme\_op\_encrypt\_result;

gpgme\_op\_export;  
gpgme\_op\_export\_ext;  
gpgme\_op\_export\_ext\_start;  
gpgme\_op\_export\_start;  
gpgme\_op\_genkey;  
gpgme\_op\_genkey\_result;  
gpgme\_op\_genkey\_start;  
gpgme\_get\_key;  
gpgme\_op\_import;  
gpgme\_op\_import\_result;  
gpgme\_op\_import\_start;

```
gpgme_op_keylist_end;
gpgme_op_keylist_ext_start;
gpgme_op_keylist_from_data_start;
gpgme_op_keylist_next;
gpgme_op_keylist_result;
gpgme_op_keylist_start;
gpgme_op_sign;
gpgme_op_sign_result;
gpgme_op_sign_start;
gpgme_op_trustlist_end;
gpgme_op_trustlist_next;
gpgme_op_trustlist_start;
gpgme_op_verify;
gpgme_op_verify_result;
gpgme_op_verify_start;
gpgme_wait;
```

```
gpgme_data_new_with_read_cb;
gpgme_data_rewind;
gpgme_get_sig_status;
gpgme_get_sig_string_attr;
gpgme_get_sig_ulong_attr;
gpgme_get_sig_key;
gpgme_key_get_string_attr;
gpgme_key_get_ulong_attr;
gpgme_key_sig_get_string_attr;
gpgme_key_sig_get_ulong_attr;
gpgme_op_import_ext;
gpgme_trust_item_get_int_attr;
gpgme_trust_item_get_string_attr;
gpgme_trust_item_release;
```

```
gpgme_err_code_from_syserror;
gpgme_err_set_errno;
```

```
local:
```

```
 *;
```

```
};
```

```
::: -*- Mode: lisp -*-
```

```
::: Copyright (C) 2006 g10 Code GmbH
```

```
:::
```

```
::: This file is part of GPGME.
```

```
:::
```

```
::: GPGME is free software; you can redistribute it and/or
```

```
::: modify it under the terms of the GNU Lesser General Public License
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;;; 02111-1307, USA.

```
(defpackage #:gpgme-system
 (:use #:common-lisp #:asdf))
```

```
(in-package #:gpgme-system)
```

```
(defsystem gpgme
 :description "GnuPG Made Easy."
 :author "g10 Code GmbH"
 :version "1.13.1"
 :licence "GPL"
 :defsystem-depends-on ("cffi-grovel")
 :depends-on ("cffi" "gpg-error" "trivial-garbage")
 :components ((:file "gpgme-package")
 (:cffi-grovel-file "gpgme-grovel"
 :depends-on ("gpgme-package"))
 (:file "gpgme"
 :depends-on ("gpgme-package" "gpgme-grovel"))))
```

-----BEGIN PGP PRIVATE KEY BLOCK-----

```
IQOYBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLrRsV21pvncZz/HXLU1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJIO1s0N2c
PSht98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqRjHLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAEAB/wLJ0gyMjs2ffft83wM
5Lzz2yQIwV4t3bbIBAUjdHTqeN5Zmsm/oakFyJSokULK96Kv0R4ej9eoIgmFvxFk
HRkrngxTrbsNJ7I6QcKYHTPeIij318ykNL6fj0WJUcdPIENukX15jbqNyk3/4D2y
TTDySyq6jHTgvMH4K4KJUSpglvSJPntTk9RhuFGHAF+sNR9atygdYctAaERMRtSg
LCoSt/AoX5GRMIQjXT9oqQjwSQoZyF4sHMC8wdTFIE/E0L4IVdHVp8sz2UzNtT
W/evmCA+KVruKjRH/Fhrq4hHkEamW28+j4L6uAyagONP7BONs+S5Oo2zTT9+tV2R
ILTZBADdgLuAgF6C5Lu9jCF6DfFgaT/uafMyQNkEGNlxOHMWHTgLHe475V2eG9gA
amd4yXKyEFKU1PWnvlGuicQSGdzVcwmq61msvXgYD0FK3LP3yWzKnE4X1tzc9Vp
/uHJxKjewCuyt1f5in919v+t8TbUxBYKC0zX/qWtX+10cTx77QQA6leqhToJ95Yc
u4UBrKMEO+y2v8Svb3LG7yI5oY8tkw0EkJ/kpZ8xTafZYCe6fXdvVE3PHg2lryxc
Wv/EU3QY/qA3G82mbXYeJ2jNzaTNYo4MylMrt4Mx25x4ke7JIsE8SVrQ+4CrHkqp
OjSIa7fppLrQ78uW980AtN8NNQGrlTsD/A9aoA60IgxylQ3K2uSyDCyjLknv57ym
```

ZSBD3/t7m0l6Q6gdbfhNGosT+Hd4y3actqEqzXZHW2VG4dKZ/wRNkxtSm9adU9vs  
EHyzxjb6mKIH32zAG5TAFt20hC+NK6lsyHr9UE2ZrS6ma2sLxGW2O40hqNsdD+5m  
NrqeBc2I/js1PMK0EHRlc3RAZXhbbXBsZS5vcmeJAVQEEwEIAD4WIQTUFzW5Ejb9  
uIIejFojAWNe7/DLBQUCWuwoSQIbAwUJA8JnAAULCQgHAgYVCgkICwIEFgIDAQIe  
AQIXgAAKCRajAWNe7/DLbf9kB/wOQ/S60HGwFq07W9N01HWULyhHKOmmcHL6rfZ6  
4oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6kaBe+wF6Kqir6udFSBW9rPcFg6/V  
ZXPtT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rNgkYo1JCBR0XdRjYCSX3yB4TWv/eX  
nZ37/WjmiTOIzh35rjs+NuU/S5JPDfAp2/k70DevQeBsv+UjVXjWpNTZmPbvDnd9  
95uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6UunOf9Rlp1oMzdxMool/d1MICxg2h  
3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ1J8Nsv87SZeEnQOYBFrsKEKBCADj  
oEBHg/QPqZHg8VyoD1xYRAWGxyDjkX/GrSs6yE+x2hk5FoQCajxKa/d4AVxOnJpd  
whAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0pO7bgAiZxkA6RHxtNqhpPnPQoXvUz  
kzprGpuL+Nj4yIgz1ITH6KQH4u5SI9vd+j/8i9Taz67pdZwuJjac8qBuJHjzAo1  
bjYctFYUSG5pbmMQyNlySzgiNkFa4DajODlt3RuqVGP316Fk+Sy2+60tC/HIX8jg  
MyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyLUGKU+L8cB2g1PGGp2biBFWqZbudZ  
oyRBet/0yH/zirBdQJw1ABEBAAEAB/4IN3gXOI4OuoOcsvHak4pebx61Mt0YP9cT  
qZASIBqxok5x8E28pFh/tYfkYdqRCtdNYZOnxcEoUWh5j6nfwZkEnJ9P/T8GPNk7  
pMKnKXmExi05b5uGHD8nU1rSbf/YkvAF0vpxd4/RDxbbtQhbUwGzusSI+pBLM0w  
5TreEB+vRGC2gOvXXOtKLNEa7M9rH2EwbAkP3jOGGwgk6adxbQdBcRxq4merqhl  
YrVz73bcj8TDc0fsNjyIaZZJ++ejfBFYavsF1pvx9z7FNF8rSXoiB3SBtaWGfhr  
bwNaMZrDc7TRIq/fgGaL6g//bzcWrr1YaHXZ10Bgx6UymDOIYkCpBADm0Hv46sPw  
07SO8+IACcaQliOto1pndOPwTimCe058/7rf8I2a5uuJloGrnPwAX65bKDnUALp6  
X3lnXRNmhnB3Uewx4i00LQmjsxhJfQiGLpMv0j58tn64s7GqQzGVV1JKcQm992RV  
jFOydyjZ+K4LGWEOITG/bZrMEVNGCM+OnQQA/Haz8xN0NFS1q7tyfFc0pkx/TiCX  
xGfBqbO0wU2b5GMnZbY/06HENpidIzpa231VQaw5/nPTvfhlLKW1iGAcK148cX1q  
IL9w2ksXuaHR3LXud2VcfVTIdxU/7h7u1dD/85+c0+7j1GOBD9cXKxIM6OjpIJz1  
l5/1h3C5S0TuxHkEAL/3BGihkhNfv1XxOrWu0/732usX/nE/A9C26hGu41FUf3fp  
0ilonKpKZUEwWt5hWSEFCSrznNvekiO0rxvuu3RVegvzThPNU4Pf4JZtJpRVhvUQ  
d9ulxJw7V9rs75uNBatTNC0kXuGoXhehw4Bn93xa67gYGd3LfrH+oT0GCDpTSHCJ  
ATwEGAEIACYWIQTUFzW5Ejb9uIIejFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAK  
CRAjAWNe7/DLbf0pCACPP5hBuUWngu2Hqvg+tNiujsiYzId3MffFxEk3CbXeHcJ  
5F32NDJ9PYCnra4L8wSv+NZt9gIa8IFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7  
Jq3e/4Iy0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02L  
kr+2Cc/Qk6H+vINOHGRgnpI/OZZjnUuFBUvMGHr1phW+y7aeymC9PnUGdViRdJe  
23nntMSDA+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyW4WHpZriN69F0t  
9Mmd7bM1+UyPgbPER0iWMeyctYsuOLEUyQKMscDT

=hkUm

-----END

PGP PRIVATE KEY BLOCK-----

#+TITLE: Stuff To Do

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

#+LATEX\_CLASS\_OPTIONS: [12pt]

#+LATEX\_HEADER: \usepackage{xltextra}

#+LATEX\_HEADER: \usepackage[margin=1in]{geometry}

#+LATEX\_HEADER: \setmainfont[Ligatures={Common}]{Latin Modern Roman}

\* Project Task List

:PROPERTIES:  
:CUSTOM\_ID: task-list  
:END:

\*\* DONE Documentation default format

CLOSED: [2018-02-15 Thu 21:29]

:PROPERTIES:  
:CUSTOM\_ID: todo-docs-default  
:END:

Decide on a default file format for documentation. The two main contenders being Org Mode, the default for the GnuPG Project and reStructuredText, the default for Python projects. A third option of DITA XML was considered due to a number of beneficial features it provides.

The decision was made to use Org Mode in order to fully integrate with the rest of the GPGME and GnuPG documentation. It is possible to produce reST versions via Pandoc and DITA XML can be reached through converting to either Markdown or XHTML first.

\*\* TODO Documentation build systems

:PROPERTIES:  
:CUSTOM\_ID: todo-docs-build-systems  
:END:

Though Org Mode is being used for the default documentation format, it still needs to end up as usable by end users. So the Org Mode files are used to produce the "source" files used by the two main contenders for documenting the bindings: Texinfo and ReStructuredText/Docutils.

\*\*\* TODO Texinfo documentation

:PROPERTIES:  
:CUSTOM\_ID: todo-docs-build-texinfo  
:END:

Need to add all of Texinfo's ... special systems to make it do its things.

\*\*\* TODO ReStructuredText documentation

:PROPERTIES:  
:CUSTOM\_ID: todo-docs-build-docutils  
:END:



Need to run Sphinx's quick start, add it to the requirements and tweak the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the lot, then the Sphinx bits can be automated.

\*\* STARTED Documentation HOWTO

:PROPERTIES:

:CUSTOM\_ID: todo-docs-howto

:END:

- State "STARTED" from "TODO" [2018-03-08 Thu 13:59] \\  
Started yesterday.

Write a HOWTO style guide for the current Python bindings.

\*\*\* DONE Start python bindings HOWTO

CLOSED: [2018-03-07 Wed 18:14]

:PROPERTIES:

:CUSTOM\_ID: howto-start

:END:

\*\*\* STARTED Include certain specific instructions in the HOWTO

:PROPERTIES:

:CUSTOM\_ID: howto-requests

:END:

Note: moved the S/MIME bits out to their own section of the TODO list and may be served better by separate HOWTO documentation anyway.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:27]  
Some functions can be worked out from the handful of examples available, but many more can't and I've already begun receiving requests for certain functions to be explained.

\*\*\*\* DONE Standard scenarios

CLOSED: [2018-03-19 Mon 12:34]

:PROPERTIES:

:CUSTOM\_ID: howto-the-basics

:END:

- State "DONE" from "STARTED"  
[2018-03-19 Mon 12:34] \\

All four of those are done.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:26] \\

Began with the example code, now to add the text.  
What everyone expects: encryption, decryption, signing and verifying.

\*\*\*\* STARTED Key control

:PROPERTIES:  
:CUSTOM\_ID: howto-key-control  
:END:

- State "STARTED" from "TODO" [2018-03-19 Mon 12:35] \\  
Generating keys and subkeys are done, but revocation is still to be done.  
Generating keys, adding subkeys, revoking subkeys (and keeping  
the cert key), adding and revoking UIDs, signing/certifying keys.

\*\*\*\* DONE More key control

CLOSED: [2018-03-19 Mon 12:36]  
:PROPERTIES:  
:CUSTOM\_ID: howto-key-selection  
:END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36] \\  
Key selection, searching, matching and counting is done.  
Selecting keys to encrypt to or manipulate in other ways (e.g. as  
with key  
control or the basics).

\*\* TODO Documentation SWIG

:PROPERTIES:  
:CUSTOM\_ID: todo-docs-swig  
:END:

Write documentation for the complete SWIG bindings demonstrating  
the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of  
something to be used in conjunction with the existing GPGME  
documentation which makes it easier for Python developers to use.

\*\* TODO GUI examples

:PROPERTIES:  
:CUSTOM\_ID: todo-gui-examples  
:END:

Create some examples of using Python bindings in a GUI application  
to either match or be similar to the old GTK2 examples available

with PyME.

\*\* TODO Replace SWIG

:PROPERTIES:

:CUSTOM\_ID: todo-replace-swig

:END:

Selecting SWIG for this project in 2002 was understandable and effectively the only viable option. The options available now, however, are significantly improved and some of those would resolve a number of existing problems with using SWIG, particularly when running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python bindings using a more suitable means of interfacing with the GPGME C source code.

\*\*\* TODO Replacement for SWIG

:PROPERTIES:

:CUSTOM\_ID: todo-replace-swig-replacement

:END:

Decide on a replacement for SWIG. Currently CFFI is looking like the most viable candidate, but some additional testing and checks are yet to be completed.

\*\* TODO API for an API

:PROPERTIES:

:CUSTOM\_ID: todo-api-squared

:END:

A C API like GPGME is not what most modern developers think of when they hear the term API. Normally they think of something they can interact with like a RESTful web API. Though RESTful is unlikely given the nature of GPGME and the process of encryption, it may be possible to provide a more familiar interface which can be utilised by developers of other languages for which bindings are not available or for which it is too difficult to create proper bindings.

\*\* TODO S/MIME

:PROPERTIES:

:CUSTOM\_ID: s-mime

:END:

Eventually add some of this, but the OpenPGP details are far more important at the moment.

\* Project Task Details

:PROPERTIES:

:CUSTOM\_ID: detailed-tasks

:END:

\*\* Working examples

:PROPERTIES:

:CUSTOM\_ID: working-examples

:END:

The old GUI examples were unable to be retained since they depended on GTK2 and Python 2's integration with GTK2.

Current GPGME examples so far only include command line tools or basic Python code for use with either Python 2.7 or Python 3.4 and above.

Future GUI examples ought to utilise available GUI modules and libraries supported by Python 3. This may include Qt frameworks, Tkinter, GTK3 or something else entirely.

\*\* Documentation

:PROPERTIES:

:CUSTOM\_ID: documentation

:END:

The legacy documentation which no longer applies to the Python bindings has been removed.

Current and future documentation will adhere to the GnuPG standard of using Org Mode and not use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode's publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either

Docutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best implemented with either HTML and CSS, with LaTeX to produce a PDF or

via a number of XML solutions. Both reST and

Org Mode have multiple paths by which to achieve all of these.

```
from __future__ import absolute_import
```

```
import cython
```

```
import gpg
```

```
c = gpg.Context()
```

```
seckeys = c.keylist(pattern=None, secret=True)
```

```
pubkeys = c.keylist(pattern=None, secret=False)
```

```
seclist = list(seckeys)
```

```
secnum = len(seclist)
```

```
publist = list(pubkeys)
```

```
pubnum = len(publist)
```

```
if cython.compiled is True:
```

```
 cc = "Powered by Cython compiled C code."
```

```
else:
```

```
 cc = "Powered by Python."
```

```
print("""
```

```
 Number of secret keys: {0}
```

```
 Number of public keys: {1}
```

```
 {2}
```

```
""").format(secnum, pubnum, cc)
```

```
\input texinfo @c -*- texinfo -*-
```

```
@c %**start of header
```

```
@setfilename maintenance-mode.info
```

```
@settitle Maintenance Mode
```

```
@documentencoding utf-8
```

```
@documentlanguage en
```

```
@c %**end of header
```

```
@finalout
```

```
@titlepage
```

```
@title Maintenance Mode
```

```
@author Ben McGinnes
```

```
@end titlepage
```

@contents

@ifnottex

@node Top

@top Maintenance Mode

@end ifnottex

@menu

\* Maintenance Mode from 2019::

@detailmenu

--- The Detailed Node Listing ---

Maintenance Mode from 2019

\* Maintainer from 2019 onward::

\* Using the Python Bindings from 2019 and beyond::

\* Documentation formats::

Documentation formats

\* Cautionary Notes regarding Sphinx and EPUB::

@end detailmenu

@end menu

@node Maintenance Mode from 2019

@chapter Maintenance Mode from 2019

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}

@item Version:

@tab 0.0.1

@item GPGME Version:

@tab 1.13.0

@item Author:

@tab Ben McGinnes <ben@@gnupg.org>

@item Author GPG Key:

@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D

@item Language:

@tab Australian

English, British English

@item xml:lang:

@tab en-AU, en-GB, en

@end multitable

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that

documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

@menu

\* Maintainer from 2019 onward::

\* Using the Python Bindings from 2019 and beyond::

\* Documentation formats::

@end menu

@node Maintainer from 2019 onward

@section Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

@node Using the Python Bindings from 2019 and beyond

@section Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with

key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [@uref{https://lists.gnupg.org/mailman/listinfo/gnupg-devel}](https://lists.gnupg.org/mailman/listinfo/gnupg-devel), gnupg-devel mailing list).

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and **not** a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to [@uref{https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset}](https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset), expedite it} (use the message field to state what feature is being requested).

**@node** Documentation formats  
**@section** Documentation formats

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

**@menu**  
\* Cautionary Notes  
regarding Sphinx and EPUB::  
**@end menu**

**@node** Cautionary Notes regarding Sphinx and EPUB  
**@subsection** Cautionary Notes regarding Sphinx and EPUB

Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by [@uref{https://readthedocs.org/}](https://readthedocs.org/), Read the Docs} and the [@uref{https://docs.python.org/}](https://docs.python.org/), Python documentation}, there are a number of output formats it does not handle well. At the top of the list of things it manages to break so atrociously as to be embarrassing is the [@uref{http://idpf.org/epub}](http://idpf.org/epub), EPUB 3} format.



The automatically generated EPUB of the CPython documentation always contains hundreds of validation errors and even the modest amount of documentation here @uref{https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub, produced a file} with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a @uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

@bye

-----BEGIN PGP PUBLIC KEY BLOCK-----

```
mQENBFsMHecBCACqdJgqa+CeNYwPCK+MpOwAV6uFVjDyO2LmOs6+XfDWRBU/Zjtz
8zdYNKsBljkWN4ujV5aiyA7MtEofszzYLEoKUtlwiDScHMpW8qmEFDv19g26MeAV
rTno9D5KodHvEIs8wnrqBs8ix0WLbh6J1Dtt8HQglbN+v3gaRQrgBFe6z2ZYpHHx
ZfOu3iFKlm2WE/NekRkvvFIo3ApGvRhGIYw6JMmugBlo7s5xosJK0I9dkPGIEEt
aF1RkcMj8sWG9vHAXcjlGgFfXSN9YLppydXpkuZGm4+gjLB2a3rbQCZVFnxCyG4O
ybjkP8Jw6Udm89bK2ucYFfjdrnYn/nJqRxeNABEBAAG0I1Rlc3QgTm9Qcm12S2V5
IDxub2JvZHIAZXhhbXBsZS5vcmc+iQFOBBMBCAA4FiEE4Fmh4IZtMa4TEXCITZou
EzBBU9EFAlsMHecCGwMFCwkIBwIGFQoJCAAsCBBYCAwECHgECF4AACgkQTZouEzBB
U9F+qwf/SHj4uRnTWgyJ71FBxQDYCBq3jbi6e7hMkRPbJyJdnPIMAb2p0PJjBgjW
0pp4+kDPZans3UDHbma1u/SFI4/y6isJiK94Bk5xp5YliLGNuUceTjgDFe6lBhfQ1
zVWZC/NF3tPgbzlxXQTNt34nS+9dbV/QFDLW0POcN7C0jR/hgkBjMEH2PezWhSj
mL/yLflUYAoxVpXjfC5aPJKqw0tR7m5ibznjCphE+FUMRg8EOmJcg6soeJ5QspU
k2dPN3+Y0zCTNRgAHEI+yIQbM6pio6v2c+UCtT1QhW4xSI38/kcEG8QiM55r1TUy
FcWAY5n5t1nNZtMxxse3LqEon3rKiLkBDQRbDB3nAQgAqfAjSjcngeRTM+ZYOWn0
QF2v2FuEuMe8mhju7Met7SN2zGv1LnhTNshEa9IABEfjZirE2Tqx4xCWDwDedK4
u1ToFvnuAMnq2O47Sh+eTypsf6WPFtPBWf6ctKY31hFXjgoyDBULBv143XU/D9C
Mt7nsKDPYHVrrnge/qWPYVcb+cO0sSwNImMcwQSdTQ3VBq7MeNS9ZeBcXi+XCjhN
kjNum2AQqpkHHDQV7871yQ8RIILvZSSfkLb0/SNDU+bGaw2G3lcyKdIfZi2EWWZT
oCbH38I/+LV7nAEe4zFpHwW8X0Dkx2aLgxe6UszDH9L3eGhTLpJhOSiaanG+zZKm
+QARAQABiQE2BBgBCAAgFiEE4Fmh4IZtMa4TEXCITZouEzBBU9EFAlsMHecCGwwA
CgkQTZouEzBBU9H5TQgAolWvIsez/WW8N2tmZENX0LOFNb+1S4L4X983njwNdoVI
w19pbj+8RIHF/H9kcPGi7jK96gvlykQn3uez/95D2AiRFW5KYdOouFisKgHpv8Ay
BrhclHv11yK+X/0iTD0scYaG7np5162xLkaxSO9hsz2fGv20RKaXCWkI69fWw0BR
XII5pZh2YFei2ZhH/tIMIw65h3w0gtgaZBBdpZTOOW4zvghyN+0MSObqkI1BvUJu
caDFI4d6ZTmP5SY+pZyktZ4bg/vMH5VFXdIKgbLx9uVeTvOupvbAW0TNulYGUBQE
nm+S0zr3W18t64e4sS3oHse8zCqo1iiImpba6F1Oaw==
```

```

=y6DD
-----END
PGP PUBLIC KEY BLOCK-----
00~0
 *H
0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10
011203093638Z
021203093638Z0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 100
 *H
0l+Pu.\-ZT$e'nE&h4<}BePm[%j- /7PcHKi@FKy~npcd${]K~Q00U37Tq8_eK40U#037Tq8_eK4om0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10U00
 *H
l8gD Z
wYL,M'j
pk2pf[L ;Rl}#h$~O!9;3e\A'v&P^$'Oc.-TS~A>:fQY<
;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.

(in-package :gpgme)

```

```

(deftype byte-array ()
 '(simple-array (unsigned-byte 8) (*)))

(deftype character-array ()
 '(simple-array character (*)))

;;;
Debugging.

(defvar *debug* nil "If debugging output should be given or not.")

;;; Load the foreign library.

(define-foreign-library libgpgme
 (:unix "libgpgme.so")
 (t (:default "libgpgme")))

(use-foreign-library libgpgme)

;;; System dependencies.

; Access to ERRNO.
(defun ("strerror" c-strerror) :string
 (err :int))

(defun get-errno ()
 errno)

(defun set-errno (errno)
 (setf *errno* errno))

(define-condition system-error (error)
 ((:errno :initarg :errno :reader system-error-errno))
 (:report (lambda (c stream)
 (format stream "System error: ~A: ~A"
 (system-error-errno c)
 (c-strerror (system-error-errno c))))))
 (:documentation "Signalled when an errno is encountered.))

; Needed to write passphrases.
(defun ("write" c-write) ssize-t
 (fd :int)
 (buffer :string) ; Actually :pointer, but we only need string.
 (size size-t))

(defun system-write (fd buffer size)
 (let ((res (c-write fd buffer size)))

```

```

 (when (< res 0) (error 'system-error
:errno (get-errno)))
 res))

;;;
;;; C Interface Definitions
;;;

;;; Data Type Interface

;;; Some new data types used for easier translation.

;;; The number of include certs. Translates to NIL for default.
(defctype cert-int-t
 (:wrapper :int
 :from-c translate-cert-int-t-from-foreign
 :to-c translate-cert-int-t-to-foreign))

;;; A string that may be NIL to indicate a null pointer.
(defctype string-or-nil-t
 (:wrapper :string
 :to-c translate-string-or-nil-t-to-foreign))

;;; Some opaque data types used by GPGME.

(defctype gpgme-ctx-t
 (:wrapper :pointer
 :to-c translate-gpgme-ctx-t-to-foreign)
 "The GPGME context type.")

(defctype gpgme-data-t
 (:wrapper :pointer
 :to-c translate-gpgme-data-t-to-foreign)
 "The GPGME data object type.")

;;; Wrappers for the libpgp-error library.

(defctype gpgme-error-t
 (:wrapper gpg-error::gpg-error-t
 :from-c translate-gpgme-error-t-from-foreign
 :to-c translate-gpgme-error-t-to-foreign)
 "The
GPGME error type.")

(defctype gpgme-error-no-signal-t
 (:wrapper gpg-error::gpg-error-t
 :from-c translate-gpgme-error-no-signal-t-from-foreign)
 "The GPGME error type (this version does not signal conditions in translation.)")

```

```

(defctype gpgme-err-code-t gpg-error::gpg-err-code-t
 "The GPGME error code type.")

(defctype gpgme-err-source-t gpg-error::gpg-err-source-t
 "The GPGME error source type.")

(defun gpgme-err-make (source code)
 "Construct an error value from an error code and source."
 (gpg-err-make source code))

(defun gpgme-error (code)
 "Construct an error value from an error code."
 (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
 "Retrieve an error code from the error value ERR."
 (gpg-err-code err))

(defun gpgme-err-source (err)
 "Retrieve an error source from the error value ERR."
 (gpg-err-source err))

(defun gpgme-strerror (err)
 "Return a string containing a description of the error code."
 (gpg-strerror err))

(defun
 gpgme-strsource (err)
 "Return a string containing a description of the error source."
 (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
 "Retrieve the error code for the system error. If the system error
 is not mapped, :gpg-err-unknown-errno is returned."
 (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
 "Retrieve the system error for the error code. If this is not a
 system error, 0 is returned."
 (gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)
 (gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)
 (gpg-error-from-errno err))

```

;;;

(defcenum gpgme-data-encoding-t

"The possible encoding mode of gpgme-data-t objects."

(:none 0)

(:binary 1)

(:base64 2)

(:armor 3)

(:url 4)

(:urlesc 5)

(:url0 6)

(:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t

"Public key algorithms from libgcrypt."

(:rsa 1)

(:rsa-e 2)

(:rsa-s 3)

(:elg-e 16)

(:dsa 17)

(:ecc 18)

(:elg 20)

(:ecdsa 301)

(:ecdh 302)

(:eddsa 303))

(defcenum gpgme-hash-algo-t

"Hash algorithms from libgcrypt."

(:none 0)

(:md5 1)

(:sha1 2)

(:rmd160 3)

(:md2 5)

(:tiger 6)

(:haval 7)

(:sha256 8)

(:sha384 9)

(:sha512 10)

(:sha224 11)

(:md4 301)

(:crc32 302)

(:crc32-rfc1510 303)

(:crc24-rfc2440 304))

;;;

```
(defcenum gpgme-sig-mode-t
 "The available signature modes."
 (:none 0)
 (:detach 1)
 (:clear 2))
```

```
;;
```

```
(defcenum gpgme-validity-t
 "The available validities for a trust item or key."
 (:unknown 0)
 (:undefined 1)
 (:never 2)
 (:marginal 3)
 (:full 4)
 (:ultimate 5))
```

```
;;
```

```
(defcenum gpgme-protocol-t
 "The available protocols."
 (:openpgp 0)
 (:cms 1)
 (:gpgconf 2)
 (:assuan 3)
 (:g13 4)
 (:uiserver 5)
 (:spawn 6)
 (:default 254)
 (:unknown 255))
```

```
;;
```

```
(defbitfield (gpgme-keylist-mode-t :unsigned-int)
 "The available keylist mode flags."
 (:local 1)
 (:extern 2)
 (:sigs 4)
 (:sig-notations)
 (:with-secret 16)
 (:with-tofu 32)
 (:ephemeral
 128)
 (:validate 256))
```

```
;;
```

```
(defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
```

"The available signature notation flags."

(:human-readable 1)

(:critical 2))

(defctype gpgme-sig-notation-t

(:wrapper :pointer

:from-c translate-gpgme-sig-notation-t-from-foreign)

"Signature notation pointer type.")

:: FIXME: Doesn't this depend on endianness?

(defbitfield (gpgme-sig-notation-bitfield :unsigned-int)

(:human-readable 1)

(:critical 2))

(defcstruct gpgme-sig-notation

"Signature notations."

(next gpgme-sig-notation-t)

(name :pointer)

(value :pointer)

(name-len :int)

(value-len :int)

(flags gpgme-sig-notation-flags-t)

(bitfield gpgme-sig-notation-bitfield))

:::

(defcenum gpgme-status-code-t

"The possible status codes for the edit operation."

(:eof 0)

(:enter 1)

(:leave 2)

(:abort 3)

(:goodsig 4)

(:badsig 5)

(:errsig 6)

(:badarmor 7)

(:rsa-or-idea 8)

(:keyexpired 9)

(:keyrevoked 10)

(:trust-undefined 11)

(:trust-never

12)

(:trust-marginal 13)

(:trust-fully 14)

(:trust-ultimate 15)

(:shm-info 16)

(:shm-get 17)

(:shm-get-bool 18)



(:shm-get-hidden 19)  
(:need-passphrase 20)  
(:validsig 21)  
(:sig-id 22)  
(:enc-to 23)  
(:nodata 24)  
(:bad-passphrase 25)  
(:no-pubkey 26)  
(:no-seckey 27)  
(:need-passphrase-sym 28)  
(:decryption-failed 29)  
(:decryption-okay 30)  
(:missing-passphrase 31)  
(:good-passphrase 32)  
(:goodmdc 33)  
(:badmdc 34)  
(:errmdc 35)  
(:imported 36)  
(:import-ok 37)  
(:import-problem 38)  
(:import-res 39)  
(:file-start 40)  
(:file-done 41)  
(:file-error 42)  
(:begin-decryption 43)  
(:end-decryption 44)  
(:begin-encryption 45)  
(:end-encryption 46)  
(:delete-problem 47)  
(:get-bool 48)  
(:get-line 49)  
(:get-hidden 50)  
(:got-it 51)  
(:progress 52)  
(:sig-created 53)  
(:session-key 54)  
(:notation-name 55)  
(:notation-data 56)  
(:policy-url 57)  
(:begin-stream 58)  
(:end-stream 59)  
(:key-created 60)  
(:userid-hint 61)  
(:unexpected  
62)  
(:inv-recp 63)  
(:no-recp 64)  
(:already-signed 65)

(:sigexpired 66)  
(:expsig 67)  
(:expkeysig 68)  
(:truncated 69)  
(:error 70)  
(:newsig 71)  
(:revkeysig 72)  
(:sig-subpacket 73)  
(:need-passphrase-pin 74)  
(:sc-op-failure 75)  
(:sc-op-success 76)  
(:cardctrl 77)  
(:backup-key-created 78)  
(:pka-trust-bad 79)  
(:pka-trust-good 80)  
(:plaintext 81)  
(:inv-sgnr 82)  
(:no-sgnr 83)  
(:success 84)  
(:decryption-info 85)  
(:plaintext-length 86)  
(:mountpoint 87)  
(:pinentry-launched 88)  
(:attribute 89)  
(:begin-signing 90)  
(:key-not-created 91)  
(:inquire-maxlen 92)  
(:failure 93)  
(:key-considered 94)  
(:tofu-user 95)  
(:tofu-stats 96)  
(:tofu-stats-long 97)  
(:notation-flags 98)  
(:decryption-compliance-mode 99)  
(:verification-compliance-mode 100))

;;;

```
(defctype gpgme-engine-info-t
 (:wrapper :pointer
 :from-c translate-gpgme-engine-info-t-to-foreign)
 "The engine information structure pointer type.")
```

```
(defstruct gpgme-engine-info
 "Engine information."
 (next gpgme-engine-info-t)
 (protocol gpgme-protocol-t)
 (file-name :string))
```

```

(version :string)
(req-version :string)
(home-dir :string))

;;;

(defctype gpgme-subkey-t
 (:wrapper :pointer
 :from-c translate-gpgme-subkey-t-from-foreign)
 "A subkey from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
 "The subkey bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512)
 (:is-cardkey 1024)
 (:is-de-vs 2048))

(defcstruct gpgme-subkey
 "Subkey from a key."
 (next gpgme-subkey-t)
 (bitfield gpgme-subkey-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (length :unsigned-int)
 (keyid :string)
 (-keyid :char :count 17)
 (fpr :string)
 (timestamp :long)
 (expires :long))

(defctype gpgme-key-sig-t
 (:wrapper :pointer
 :from-c translate-gpgme-key-sig-t-from-foreign)
 "A signature on a user ID.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
 "The key signature bitfield."

```

```
(:revoked 1)
(:expired 2)
(:invalid 4)
(:exportable 16))
```

```
(defcstruct gpgme-key-sig
 "A signature on a user ID."
 (next gpgme-key-sig-t)
 (bitfield gpgme-key-sig-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (keyid :string)
 (-keyid :char :count 17)
 (timestamp :long)
 (expires :long)
 (status gpgme-error-no-signal-t)
 (-class :unsigned-int)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (sig-class :unsigned-int))
```

```
(defctype gpgme-user-id-t
 (:wrapper :pointer
 :from-c translate-gpgme-user-id-t-from-foreign)
 "A user ID from a key.")
```

```
:: FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
 "The user ID bitfield."
 (:revoked 1)
 (:invalid 2))
```

```
(defcstruct gpgme-user-id
 "A user ID from a key."
 (next
 gpgme-user-id-t)
 (bitfield gpgme-user-id-bitfield)
 (validity gpgme-validity-t)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (signatures gpgme-key-sig-t)
 (-last-keysig gpgme-key-sig-t))
```

```

(defctype gpgme-key-t
 (:wrapper :pointer
 :from-c translate-gpgme-key-t-from-foreign
 :to-c translate-gpgme-key-t-to-foreign)
 "A key from the keyring.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-bitfield :unsigned-int)
 "The key bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512))

(defcstruct gpgme-key
 "A signature on a user ID."
 (-refs :unsigned-int)
 (bitfield gpgme-key-bitfield)
 (protocol gpgme-protocol-t)
 (issuer-serial :string)
 (issuer-name :string)
 (chain-id :string)
 (owner-trust gpgme-validity-t)
 (subkeys gpgme-subkey-t)
 (uids gpgme-user-id-t)
 (-last-subkey gpgme-subkey-t)
 (-last-uid gpgme-user-id-t)
 (keylist-mode gpgme-keylist-mode-t))

;;;

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)

(defctype gpgme-progress-cb-t :pointer)

(defctype gpgme-edit-cb-t :pointer)

;;;

```

;;; Function Interface

;;;

;;; Context management functions.

```
(defcfun ("gpgme_new" c-gpgme-new) gpgme-error-t
 (ctx :pointer))
```

```
(defcfun ("gpgme_release" c-gpgme-release) :void
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t))
```

```
(defcfun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
 (proto gpgme-protocol-t))
```

```
(defcfun ("gpgme_set_armor" c-gpgme-set-armor) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))
```

```
(defcfun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))
```

```
(defcfun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
 (ctx gpgme-ctx-t))
```

```
(defconstant +include-certs-default+ -256)
```

```
(defcfun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
 (ctx gpgme-ctx-t)
 (nr-of-certs cert-int-t))
```

```
(defcfun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
 (ctx gpgme-ctx-t)
 (mode gpgme-keylist-mode-t))
```

```

(defcfun ("gpgme_get_keylist_mode" c-gpgme-get-keylist-mode)
 gpgme-keylist-mode-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_passphrase_cb" c-gpgme-set-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-passphrase-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_passphrase_cb" c-gpgme-get-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))

(defcfun ("gpgme_set_progress_cb"
 c-gpgme-set-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-progress-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_progress_cb" c-gpgme-get-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))

(defcfun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
 (ctx gpgme-ctx-t)
 (category :int)
 (value string-or-nil-t))

(defcfun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
 gpgme-engine-info-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir string-or-nil-t))

;;;

(defcfun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
 (algo gpgme-pubkey-algo-t))

(defcfun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
 (algo gpgme-hash-algo-t))

```

```

;;;

(defun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
 (ctx gpgme-ctx-t))

(defun ("gpgme_signers_add" c-gpgme-signers-add)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t))

(defun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
 (ctx gpgme-ctx-t)
 (seq :int))

;;;

(defun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
 (ctx gpgme-ctx-t))

(defun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
 (ctx gpgme-ctx-t)
 (name :string)
 (value string-or-nil-t)
 (flags gpgme-sig-notation-flags-t))

(defun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
 gpgme-sig-notation-t
 (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
 "The possible events on I/O event callbacks."
 (:start 0)
 (:done 1)
 (:next-key 2)
 (:next-trustitem 3))

```



```
(defctype gpgme-event-io-cb-t :pointer)
```

```
(defcstruct
 gpgme-io-cbs
 "I/O callbacks."
 (add gpgme-register-io-cb-t)
 (add-priv :pointer)
 (remove gpgme-remove-io-cb-t)
 (event gpgme-event-io-cb-t)
 (event-priv :pointer))
```

```
(defctype gpgme-io-cbs-t :pointer)
```

```
(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))
```

```
(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))
```

```
(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
 (ctx gpgme-ctx-t)
 (status-p :pointer)
 (hang :int))
```

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have  
;;; automatic type checking with the callback definition.

```
(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)
```

```
(defcstruct gpgme-data-cbs
 "Data callbacks."
 (read gpgme-data-read-cb-t)
 (write gpgme-data-write-cb-t)
 (seek gpgme-data-seek-cb-t)
 (release gpgme-data-release-cb-t))
```

```
(defctype gpgme-data-cbs-t :pointer
 "Data callbacks pointer.")
```

```
(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
 (dh gpgme-data-t))
```

```

(buffer :pointer)
(size size-t)

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
 (dh gpgme-data-t)
 (buffer :pointer)
 (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
 (dh gpgme-data-t)
 (offset off-t)
 (whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
 (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
 (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
 (dh-p :pointer)
 (buffer :pointer)
 (size size-t)
 (copy :int))

(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
 :pointer
 (dh gpgme-data-t)
 (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
 (dh-p :pointer)
 (cbs gpgme-data-cbs-t)
 (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
 (dh-p :pointer)
 (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream)
 gpgme-error-t
 (dh-p :pointer)
 (stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
 gpgme-data-encoding-t
 (dh gpgme-data-t))

```

```

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
 gpgme-error-t
 (dh gpgme-data-t)
 (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
 (dh gpgme-data-t)
 (file-name string-or-nil-t))

(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (copy :int))

(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)
 gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (fp
 :pointer)
 (offset off-t)
 (length size-t))

;;; Key and trust functions.

(defcfun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t
 (ctx gpgme-ctx-t)
 (fpr :string)
 (key-p :pointer)
 (secret :boolean))

(defcfun ("gpgme_key_ref" c-gpgme-key-ref) :void
 (key gpgme-key-t))

(defcfun ("gpgme_key_unref" c-gpgme-key-unref) :void
 (key gpgme-key-t))

;;; Crypto operations.

(defcfun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t
 (ctx gpgme-ctx-t))

;;;

(defctype gpgme-invalid-key-t

```

```

(:wrapper :pointer
 :from-c translate-gpgme-invalid-key-t-from-foreign)
"An invalid key structure.")

(defcstruct gpgme-invalid-key
 "An invalid key structure."
 (next gpgme-invalid-key-t)
 (fpr :string)
 (reason gpgme-error-no-signal-t))

;;; Encryption.

(defcstruct gpgme-op-encrypt-result
 "Encryption result structure."
 (invalid-recipients gpgme-invalid-key-t))

(defctype gpgme-op-encrypt-result-t
 (:wrapper :pointer
 :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
 "An encryption result structure.")

(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result)
 gpgme-op-encrypt-result-t
 (ctx gpgme-ctx-t))

(defbitfield gpgme-encrypt-flags-t
 (:always-trust 1)
 (:no-encrypt-to 2)
 (:prepare 4)
 (:expect-sign 8)
 (:no-compress 16)
 (:symmetric 32)
 (:throw-keyids 64)
 (:wrap 128)
 (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t))

```

```
(cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))
```

```
(defcfun ("gpgme_op_encrypt_sign"
 c-gpgme-op-encrypt-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))
```

;;; Decryption.

```
(defctype gpgme-recipient-t
 (:wrapper :pointer
 :from-c translate-gpgme-recipient-t-from-foreign)
 "A recipient structure.")
```

```
(defstruct gpgme-recipient
 "Recipient structure."
 (next gpgme-recipient-t)
 (keyid :string)
 (-keyid :char :count 17)
 (pubkey-algo gpgme-pubkey-algo-t)
 (status gpgme-error-no-signal-t))
```

```
(defbitfield gpgme-op-decrypt-result-bitfield
 "Decryption result structure bitfield."
 (:wrong-key-usage 1)
 (:is-de-vs 2)
 (:is-mine 4))
```

```
(defstruct gpgme-op-decrypt-result
 "Decryption result structure."
 (unsupported-algorithm :string)
 (bitfield gpgme-op-decrypt-result-bitfield)
 (recipients gpgme-recipient-t)
 (file-name :string))
```

```
(defctype gpgme-op-decrypt-result-t
 (:wrapper :pointer
```

```

 :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
 "A decryption result structure.")

(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result)
 gpgme-op-decrypt-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

;;; Signing.

```

```

(defctype gpgme-new-signature-t
 (:wrapper :pointer
 :from-c translate-gpgme-new-signature-t-from-foreign)
 "A new signature structure.")

```

```

(defcstruct gpgme-new-signature
 "New signature structure."
 (next gpgme-new-signature-t)
 (type gpgme-sig-mode-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t)
 (-obsolete-class :unsigned-long)
 (timestamp :long)
 (fpr :string)
 (-obsolete-class-2 :unsigned-int)
 (sig-class :unsigned-int))

```

```

(defcstruct gpgme-op-sign-result

```

```

"Signing result structure."
(invalid-signers gpgme-invalid-key-t)
(signatures gpgme-new-signature-t))

(defctype gpgme-op-sign-result-t
 (:wrapper :pointer
 :from-c translate-gpgme-op-sign-result-t-from-foreign)
 "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
 gpgme-op-sign-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))

::: Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
 "Flags
used for the summary field in a gpgme-signature-t."
 (:valid #x0001)
 (:green #x0002)
 (:red #x0004)
 (:key-revoked #x0010)
 (:key-expired #x0020)
 (:sig-expired #x0040)
 (:key-missing #x0080)
 (:crl-missing #x0100)
 (:crl-too-old #x0200)
 (:bad-policy #x0400)
 (:sys-error #x0800)
 (:tofu-conflict #x1000))

(defctype gpgme-signature-t
 (:wrapper :pointer
 :from-c translate-gpgme-signature-t-from-foreign)
 "A signature structure.")

```

```

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
 "The signature bitfield."
 (:wrong-key-usage 1)
 (:pka-trust 2)
 (:chain-model 4)
 (:is-de-vs 8))

(defcstruct gpgme-signature
 "Signature structure."
 (next gpgme-signature-t)
 (summary gpgme-sigsum-t)
 (fpr :string)
 (status gpgme-error-no-signal-t)
 (notations gpgme-sig-notation-t)
 (timestamp :unsigned-long)
 (exp-timestamp :unsigned-long)
 (bitfield gpgme-signature-bitfield)
 (validity gpgme-validity-t)
 (validity-reason
 gpgme-error-no-signal-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t))

(defcstruct gpgme-op-verify-result
 "Verify result structure."
 (signatures gpgme-signature-t)
 (file-name :string))

(defctype gpgme-op-verify-result-t
 (:wrapper :pointer
 :from-c translate-gpgme-op-verify-result-t-from-foreign)
 "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
 gpgme-op-verify-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t))

```



```
(plaintext gpgme-data-t))
```

```
::: Import.
```

```
(defbitfield (gpgme-import-flags-t :unsigned-int)
 "Flags used for the import status field."
 (:new #x0001)
 (:uid #x0002)
 (:sig #x0004)
 (:subkey #x0008)
 (:secret
 #x0010))
```

```
(defctype gpgme-import-status-t
 (:wrapper :pointer
 :from-c translate-gpgme-import-status-t-from-foreign)
 "An import status structure.")
```

```
(defcstruct gpgme-import-status
 "New import status structure."
 (next gpgme-import-status-t)
 (fpr :string)
 (result gpgme-error-no-signal-t)
 (status :unsigned-int))
```

```
(defcstruct gpgme-op-import-result
 "Import result structure."
 (considered :int)
 (no-user-id :int)
 (imported :int)
 (imported-rsa :int)
 (unchanged :int)
 (new-user-ids :int)
 (new-sub-keys :int)
 (new-signatures :int)
 (new-revocations :int)
 (secret-read :int)
 (secret-imported :int)
 (secret-unchanged :int)
 (skipped-new-keys :int)
 (not-imported :int)
 (imports gpgme-import-status-t))
```

```
(defctype gpgme-op-import-result-t
 (:wrapper :pointer
 :from-c translate-gpgme-op-import-result-t-from-foreign)
 "An import status result structure.")
```

```

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result)
 gpgme-op-import-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

;;; Export.

(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
 (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.

(defbitfield (gpgme-genkey-flags-t :unsigned-int)
 "Flags used for the key generation result bitfield."
 (:primary #x0001)
 (:sub #x0002)
 (:uid #x0004))

(defcstruct gpgme-op-genkey-result
 "Key generation result structure."
 (bitfield gpgme-genkey-flags-t)
 (fpr :string))

(defctype gpgme-op-genkey-result-t :pointer
 "A
 key generation result structure.")

(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
 gpgme-op-genkey-result-t
 (ctx gpgme-ctx-t))

```

```
(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))
```

```
(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))
```

::: Key deletion.

```
(defcfun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))
```

```
(defcfun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))
```

::: FIXME: Add edit interfaces.

::: Keylist interface.

```
(defbitfield (gpgme-keylist-flags-t :unsigned-int)
 "Flags used for the key listing result bitfield."
 (:truncated #x0001))
```

```
(defcstruct gpgme-op-keylist-result
 "Key listing result structure."
 (bitfield
 gpgme-keylist-flags-t))
```

```
(defctype gpgme-op-keylist-result-t :pointer
 "A key listing result structure.")
```

```
(defcfun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
 gpgme-op-keylist-result-t
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string))
```

```
(secret_only :boolean))
```

```
;;; FIXME: Extended keylisting requires array handling.
```

```
(defcfun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
 (ctx gpgme-ctx-t)
 (r-key :pointer))
```

```
(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
 (ctx gpgme-ctx-t))
```

```
;;; Various functions.
```

```
(defcfun ("gpgme_check_version" c-gpgme-check-version) :string
 (req-version string-or-nil-t))
```

```
(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
 (engine-info-p :pointer))
```

```
(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir
 string-or-nil-t))
```

```
(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-version)
 gpgme-error-t
 (proto gpgme-protocol-t))
```

```
;;;
```

```
;;; L I S P I N T E R F A C E
```

```
;;;
```

```
;;;
```

```
;;; Lisp type translators.
```

```
;;;
```

```
;;; Both directions.
```

```
;;; cert-int-t is a helper type that takes care of representing the
;;; default number of certs as NIL.
```

```
(defun translate-cert-int-t-from-foreign (value)
 (cond
 ((eql value +include-certs-default+) nil)
 (t value)))
```

```
(defun translate-cert-int-t-to-foreign (value)
```

```
(cond
 (value value)
 (t +include-certs-default+)))
```

;;; string-or-nil-t translates a null pointer to NIL and vice versa.  
;;; Translation from foreign null pointer already works as expected.

```
(defun translate-string-or-nil-t-to-foreign (value)
 (cond
 (value value)
 (t (null-pointer))))
```

;;; Output only.

;;; These type translators only convert from foreign type, because we  
;;; never use these types in the other direction.

;;; Convert gpgme-engine-info-t linked lists into a  
list of property  
;;; lists. Note that this converter will automatically be invoked  
;;; recursively.  
;;;  
;;; FIXME: Should we use a hash table (or struct, or clos) instead of  
;;; property list, as recommended by the Lisp FAQ?

```
(defun translate-gpgme-engine-info-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next protocol file-name version req-version home-dir)
 value (:struct gpgme-engine-info))
 (append (list protocol (list
 :file-name file-name
 :version version
 :req-version req-version
 :home-dir home-dir))
 next))))))
```

```
(defun translate-gpgme-invalid-key-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next fpr reason)
 value (:struct gpgme-invalid-key))
 (append (list (list :fpr fpr
 :reason reason))
 next))))))
```

```
(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((invalid-recipients)
 value (:struct gpgme-op-encrypt-result))
 (list :encrypt
 (list :invalid-recipients invalid-recipients)))))))
```

```
(defun translate-gpgme-recipient-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next keyid pubkey-algo status)
 value (:struct gpgme-recipient))
 (append (list (list :keyid keyid
 :pubkey-algo pubkey-algo
 :status status))
 next))))))
```

```
(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((unsupported-algorithm bitfield recipients file-name)
 value (:struct gpgme-op-decrypt-result))
 (list :decrypt (list :unsupported-algorithm unsupported-algorithm
 :bitfield bitfield
 :recipients recipients
 :file-name file-name))))))
```

```
(defun translate-gpgme-new-signature-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next
 type pubkey-algo hash-algo timestamp fpr sig-class)
 value (:struct gpgme-new-signature))
 (append (list (list :type type
 :pubkey-algo pubkey-algo
 :hash-algo hash-algo
 :timestamp timestamp
 :fpr fpr
 :sig-class sig-class))
 next))))))
```

```
(defun translate-gpgme-op-sign-result-t-from-foreign (value)
```

```

(cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((invalid-signers signatures)
 value (:struct gpgme-op-sign-result))
 (list :sign (list :invalid-signers invalid-signers
 :signatures signatures))))))

(defun translate-gpgme-signature-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next summary fpr status notations timestamp
 exp-timestamp bitfield validity validity-reason
 pubkey-algo hash-algo)
 value (:struct gpgme-signature))
 (append (list (list :summary summary
 :fpr fpr
 :status status
 :notations notations
 :timestamp timestamp

 :exp-timestamp exp-timestamp
 :bitfield bitfield
 :validity validity
 :validity-reason validity-reason
 :pubkey-algo pubkey-algo))
 next))))))

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((signatures file-name)
 value (:struct gpgme-op-verify-result))
 (list :verify (list :signatures signatures
 :file-name file-name))))))

(defun translate-gpgme-import-status-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next fpr result status)
 value (:struct gpgme-import-status))
 (append (list (list :fpr fpr
 :result result
 :status status))
 next))))))

```

```

(defun translate-gpgme-op-import-result-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((considered no-user-id imported imported-rsa unchanged
 new-user-ids new-sub-keys new-signatures
 new-revocations
 secret-read secret-imported
 secret-unchanged skipped-new-keys not-imported
 imports)
 value (:struct gpgme-op-import-result))
 (list :verify (list :considered considered
 :no-user-id no-user-id
 :imported imported
 :imported-rsa imported-rsa
 :unchanged unchanged
 :new-user-ids new-user-ids
 :new-sub-keys new-sub-keys
 :new-signatures new-signatures
 :new-revocations new-revocations
 :secret-read secret-read
 :secret-imported secret-imported
 :secret-unchanged secret-unchanged
 :skipped-new-keys skipped-new-keys
 :not-imported not-imported
 :imports imports)))))))

;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.
;;;
;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
 ((value :initarg :gpgme-error :reader gpgme-error-value))
 (:report (lambda (c stream)

 (format stream "GPGME returned error: ~A (~A)"
 (gpgme-strerror (gpgme-error-value c))
 (gpgme-strsource (gpgme-error-value c))))
 (:documentation "Signalled when a GPGME function returns an error.)))

(defun translate-gpgme-error-t-from-foreign (value)
 "Raise a GPGME-ERROR if VALUE is non-zero."
 (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
 (error 'gpgme-error :gpgme-error value)))

```



```

(gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
 "Canonicalize the error value."
 (if (eql (gpgme-err-code value) :gpg-err-no-error)
 0
 (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
 "Canonicalize the error value."
 (gpg-err-canonicalize value))

;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;; interface.

;;; Passphrase callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar
 passphrase-handles (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
 passphrase callback object as value.")

(defcallback passphrase-cb gpgme-error-t ((handle :pointer)
 (uid-hint :string)
 (passphrase-info :string)
 (prev-was-bad :boolean)
 (fd :int))
(handler-case
 (let* ((passphrase-cb
 (gethash (pointer-address handle) *passphrase-handles*))
 (passphrase
 (cond
 ((functionp passphrase-cb)
 (concatenate 'string
 (funcall passphrase-cb uid-hint passphrase-info
 prev-was-bad)
 '(\Newline))))
 (t (concatenate 'string passphrase-cb '(\Newline))))
 (passphrase-len (length passphrase))
 ;; FIXME: Could be more robust.
 (res (system-write fd passphrase passphrase-len)))
 (cond
 ((< res passphrase-len) ; FIXME: Blech. A weak attempt to be robust.
 (gpgme-error :gpg-err-ival))

```

```

(t (gpgme-error :gpg-err-no-error))))
(gpgme-error (err)
(gpgme-error-value err))
(system-error (err) (gpgme-error-from-errno (system-error-errno err)))
;; FIXME: The original error gets lost here.
(condition (err) (progn
 (when *debug*
 (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%"
 err))
 (gpgme-error :gpg-err-general))))))

```

;;; CTX is a C-pointer to the context.

```

(defun gpgme-set-passphrase-cb (ctx cb)
 "Set the passphrase callback for CTX."
 (let ((handle (pointer-address ctx)))
 (cond
 (cb (setf (gethash handle *passphrase-handles*) cb)
 (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
 (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer))
 (remhash handle *passphrase-handles*))))))

```

;;; Progress callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable

;;; default implementation for ease-of-use.

```

(defvar *progress-handles* (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
 progress callback
 object as value.")

```

```

(defcallback progress-cb :void ((handle :pointer)
 (what :string)
 (type :int)
 (current :int)
 (total :int))
 (handler-case
 (let* ((progress-cb
 (gethash (pointer-address handle) *progress-handles*)))
 (funcall progress-cb what type current total))
 ;; FIXME: The original error gets lost here.
 (condition (err) (when *debug*
 (format t "DEBUG: progress-cb: Unexpressable: ~A~%"
 err))))))

```

;;; CTX is a C-pointer to the context.

```

(defun gpgme-set-progress-cb (ctx cb)

```

```

 "Set the progress callback for CTX."

```

```
(let ((handle (pointer-address ctx)))
 (cond
 (cb (setf (gethash handle *progress-handles*) cb)
 (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
 (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
 (remhash handle *progress-handles*))))))
```

;;; Context management.

```
(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs
 keylist-mode passphrase progress file-name
 home-dir)
 "Allocate a new GPGME context."
 (with-foreign-object (ctx-p 'gpgme-ctx-t)
 (c-gpgme-new ctx-p)
 (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
 ;;; Set locale?
 (gpgme-set-protocol ctx protocol)
 (gpgme-set-armor ctx armor)
 (gpgme-set-textmode ctx textmode)
 (when include-certs (gpgme-set-include-certs ctx include-certs))
 (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
 (gpgme-set-passphrase-cb ctx passphrase)
 (gpgme-set-progress-cb ctx progress)
 (gpgme-set-engine-info ctx protocol
 :file-name file-name :home-dir home-dir)
 (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx)
 ctx)))
```

```
(defun gpgme-release (ctx)
 "Release a GPGME context."
 (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
 (c-gpgme-release ctx))
```

```
(defun gpgme-set-protocol (ctx proto)
 "Set the protocol to be used by CTX to PROTO."
 (c-gpgme-set-protocol ctx proto))
```

```
(defun gpgme-get-protocol (ctx)
 "Get
 the protocol used with CTX."
 (c-gpgme-get-protocol ctx))
```

```
;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name
```

```
(defun gpgme-set-armor (ctx armor)
```

```

"If ARMOR is true, enable armor mode in CTX, disable it otherwise."
(c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
 "Return true if armor mode is set for CTX."
 (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
 "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
 (c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
 "Return true if text mode mode is set for CTX."
 (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
 "Include up to CERTS certificates in an S/MIME message."
 (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
 "Return the number of certs to include in an S/MIME message,
 or NIL if the default is used."
 (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
 "Get the keylist mode in CTX."
 (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
 "Set the keylist mode in CTX."
 (c-gpgme-set-keylist-mode ctx mode))

;;; FIXME: How to handle locale? cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
 "Retrieve the engine info for CTX, or the default if CTX is omitted."
 (cond
 (ctx (c-gpgme-ctx-get-engine-info ctx))
 (t (with-foreign-object (info-p 'gpgme-engine-info-t)
 (c-gpgme-get-engine-info info-p)
 (mem-ref info-p 'gpgme-engine-info-t))))))

(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
 "Set the engine info for CTX, or the default if CTX is NIL."
 (cond
 (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
 (t (c-gpgme-set-engine-info proto file-name home-dir))))

```

```

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
 "Set the signers for the context CTX."
 (c-gpgme-signers-clear ctx)
 (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
 "Set the sig notation for the context CTX."
 (c-gpgme-sig-notation-clear ctx)
 (dolist (notation notations)
 (c-gpgme-sig-notation-add
 ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
 "Get the signature notation data for the context CTX."
 (c-gpgme-sig-notation-get ctx))

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
;;; -----
;;;
;;; GPGME uses standard streams. You can define your own streams, or
;;; use the existing file or string streams.
;;;
;;; A stream-spec is either a stream, or a list with a stream as its
;;; first argument followed by keyword parameters: encoding,
;;; file-name.
;;;
;;; FIXME: Eventually, we should provide a class that can be mixed
;;; into stream classes and which provides accessors for encoding and
;;; file-names. This interface
 should be provided in addition to the
;;; above sleazy interface, because the sleazy interface is easier to
;;; use (less typing), and is quite sufficient in a number of cases.
;;;
;;; For best results, streams with element type (unsigned-byte 8)
;;; should be used. Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams

```

```

;;; as well? It seems to me that specific optimizations, like
;;; directly writing to file descriptors, is better done by extending
;;; the sleazy syntax (stream-spec) instead of customized streams.
;;; Customized streams do buffering, and this may mess up things. Mmh.

```

```

(defvar *data-handles* (make-hash-table)

```

```

"Hash table with GPGME data user callback handle address as key
and the corresponding stream as value.")

```

```

;;; The release callback removes the stream from the *data-handles*
;;; hash and releases the CBS structure that is used as the key in
;;; that hash. It is implicitly invoked (through
GPGME) by
;;; gpgme-data-release.

```

```

(defcallback data-release-cb :void ((handle :pointer))
(unwind-protect (remhash (pointer-address handle) *data-handles*)
 (when (not (null-pointer-p handle)) (foreign-free handle))))

```

```

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
(size size-t))

```

```

(when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))

```

```

(let ((stream (gethash (pointer-address handle) *data-handles*)))

```

```

(cond

```

```

(stream

```

```

(let* ((stream-type (stream-element-type stream))

```

```

(seq (make-array size :element-type stream-type))

```

```

(read (read-sequence seq stream))))

```

```

(cond

```

```

((equal stream-type '(unsigned-byte 8))

```

```

(dotimes (i read)

```

```

(setf (mem-aref buffer :unsigned-char i)

```

```

(aref (the byte-array seq) i))))

```

```

((eql stream-type 'character)

```

```

(dotimes (i read)

```

```

(setf (mem-aref buffer :unsigned-char

```

```

i)

```

```

(char-code (aref (the character-array seq) i))))))

```

```

(t

```

```

(dotimes (i read)

```

```

(setf (mem-aref buffer :unsigned-char i)

```

```

(coerce (aref seq i) '(unsigned-byte 8))))))

```

```

(when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))

```

```

read))

```

```

(t

```

```

(set-errno +ebadf+

```

```

-1))))

```

```

(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer)

```

```

(size size-t))
(when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
(let ((stream (gethash (pointer-address handle) *data-handles*)))
 (cond
 (stream
 (let* ((stream-type (stream-element-type stream))
 (seq (make-array size :element-type stream-type)))
 (cond
 ((equal stream-type '(unsigned-byte 8))
 (dotimes (i size)
 (setf (aref (the byte-array seq) i)
 (mem-aref buffer :unsigned-char i))))
 ((eql stream-type 'character)
 (dotimes (i size)
 (setf (aref (the character-array seq) i)
 (code-char (mem-aref buffer :unsigned-char i))))))
 (t
 (dotimes (i size)
 (setf (aref seq i)
 (coerce (mem-aref buffer :unsigned-char i) stream-type))))))
 (write-sequence seq stream)
 size))
 (t
 (set-errno +ebadf+)
 -1)))

```

;;; This little helper macro allows us to swallow the cbs structure by  
 ;;; simply setting it to a null pointer, but still protect against  
 ;;; conditions.

```

(defmacro with-cbs-swallowed ((cbs) &body body)
 `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
 (unwind-protect (progn ,@body)
 (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs))))))

```

```

(defun gpgme-data-new (stream &key encoding file-name)
 "Allocate a new GPGME data object for STREAM."
 (with-foreign-object (dh-p 'gpgme-data-t)
 ;;; We allocate one CBS structure
 for each stream we wrap in a
 ;;; data object. Although we could also share all these
 ;;; structures, as they contain the very same callbacks, we need a
 ;;; unique C pointer as handle anyway to look up the stream in the
 ;;; callback. This is a convenient one to use.
 (with-cbs-swallowed (cbs)
 (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
 (callback data-read-cb))
 (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
 (callback data-write-cb))

```

```

(setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
 (null-pointer))
(setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
 (callback data-release-cb))
(c-gpgme-data-new-from-cbs dh-p cbs cbs)
(let ((dh (mem-ref dh-p 'gpgme-data-t)))
 (when encoding (gpgme-data-set-encoding dh encoding))
 (when file-name (gpgme-data-set-file-name dh file-name))
 ;; Install the stream into the hash table and
 swallow the cbs
 ;; structure while protecting against any errors.
 (unwind-protect
 (progn
 (setf (gethash (pointer-address cbs) *data-handles*) stream)
 (setf cbs (null-pointer)))
 (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh)))
 (when *debug* (format t "DEBUG: gpgme-data-new: ~A~%" dh)
 dh))))

;; This function releases a GPGME data object. It implicitly
;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
 "Release a GPGME data object."
 (when *debug* (format t "DEBUG: gpgme-data-release: ~A~%" dh))
 (c-gpgme-data-release dh))

(defclass data ()
 (c-data) ; The C data object pointer
 (:documentation "The GPGME data type.))

(defmethod initialize-instance :after ((data data) &key streamspec
 &allow-other-keys)
 (let ((c-data (if (listp streamspec)
 (apply #'gpgme-data-new streamspec)
 (gpgme-data-new streamspec))))
 (cleanup t)
 (unwind-protect
 (progn
 (setf (slot-value data 'c-data) c-data)
 (finalize data (lambda () (gpgme-data-release c-data)))
 (setf cleanup nil))
 (if cleanup (gpgme-data-release c-data))))))

(defun translate-gpgme-data-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (cond
 ((null value) (null-pointer))
 ((pointerp value) value)

```



```

(t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
 `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
 ,@body))

(defun gpgme-data-get-encoding (dh)
 "Get the encoding associated with the data object DH."
 (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
 "Set the encoding associated with the data object DH to ENCODING."
 (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
 "Get the file name associated with the data object
 DH."
 (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
 "Set the file name associated with the data object DH to FILE-NAME."
 (c-gpgme-data-set-file-name dh file-name))

;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
 "Get the key with the fingerprint FPR from the context CTX."
 (with-foreign-object (key-p 'gpgme-key-t)
 (c-gpgme-get-key ctx fpr key-p secret)
 (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
 "Acquire an additional reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
 (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
 "Release a reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
 (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
 (c-gpgme-check-version req-version))

```

```

;;;
;;;
The *EXPORTED* CLOS interface.
;;;

;;; The context type.

;;; We wrap the C context pointer into a class object to be able to
;;; stick a finalizer on it.

(defclass context ()
 (c-ctx ; The C context object pointer.
 signers ; The list of signers.
 sig-notation) ; The list of signers.
 (:documentation "The GPGME context type.))

(defmethod initialize-instance :after ((ctx context) &rest rest
 &key &allow-other-keys)
 (let ((c-ctx (apply #'gpgme-new rest))
 (cleanup t))
 (unwind-protect
 (progn (setf (slot-value ctx 'c-ctx) c-ctx)
 (finalize ctx (lambda () (gpgme-release c-ctx)))
 (setf cleanup nil))
 (if cleanup (gpgme-release c-ctx))))))

(defun translate-gpgme-ctx-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (if (pointerp value) value (slot-value value 'c-ctx)))

(defmacro context (&rest rest)
 "Create a new GPGME context."
 `(make-instance 'context ,@rest))

;;; The context type: Accessor
functions.

;;; The context type: Accessor functions: Protocol.

(defgeneric protocol (ctx)
 (:documentation "Get the protocol of CONTEXT."))

(defmethod protocol ((ctx context))
 (gpgme-get-protocol ctx))

(defgeneric (setf protocol) (protocol ctx)
 (:documentation "Set the protocol of CONTEXT to PROTOCOL."))

```

;;; FIXME: Adjust translator to reject invalid protocols. Currently,  
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"  
;;; error. This is suboptimal.

```
(defmethod (setf protocol) (protocol (ctx context))
 (gpgme-set-protocol ctx protocol))
```

;;; The context type: Accessor functions: Armor.  
;;; FIXME: Is it good style to make foop setf-able? Or should it be  
;;; foo/foop for set/get?

```
(defgeneric armorp (ctx)
 (:documentation "Get the armor flag of CONTEXT."))
```

```
(defmethod armorp ((ctx context))
 (gpgme-armor-p ctx))
```

```
(defgeneric (setf armorp) (armor ctx)
 (:documentation "Set the armor flag of CONTEXT to ARMOR."))
```

```
(defmethod (setf armorp) (armor (ctx
 context))
 (gpgme-set-armor ctx armor))
```

;;; The context type: Accessor functions: Textmode.  
;;; FIXME: Is it good style to make foop setf-able? Or should it be  
;;; foo/foop for set/get?

```
(defgeneric textmodep (ctx)
 (:documentation "Get the text mode flag of CONTEXT."))
```

```
(defmethod textmodep ((ctx context))
 (gpgme-textmode-p ctx))
```

```
(defgeneric (setf textmodep) (textmode ctx)
 (:documentation "Set the text mode flag of CONTEXT to TEXTMODE."))
```

```
(defmethod (setf textmodep) (textmode (ctx context))
 (gpgme-set-textmode ctx textmode))
```

;;; The context type: Accessor functions: Include Certs.

```
(defgeneric include-certs (ctx)
 (:documentation "Get the number of included certificates in an
 S/MIME message, or NIL if the default is used."))
```

```
(defmethod include-certs ((ctx context))
 (gpgme-get-include-certs ctx))
```

```
(defgeneric (setf include-certs) (certs ctx)
 (:documentation "Return the number of certificates to include in an
 S/MIME message, or
 NIL if the default is used."))
```

```
(defmethod (setf include-certs) (certs (ctx context))
 (gpgme-set-include-certs ctx certs))
```

;;; The context type: Accessor functions: Engine info.

```
(defgeneric engine-info (ctx)
 (:documentation "Retrieve the engine info for CTX."))
```

```
(defmethod engine-info ((ctx context))
 (gpgme-get-engine-info ctx))
```

```
(defgeneric (setf engine-info) (info ctx)
 (:documentation "Set the engine info for CTX."))
```

```
(defmethod (setf engine-info) (info (ctx context))
 (dolist (proto `(:openpgp :cms))
 (let ((pinfo (getf info proto)))
 (when pinfo
 (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
 :home-dir (getf pinfo :home-dir))))))
```

;;; The context type: Accessor functions: Keylist mode.

```
(defgeneric keylist-mode (ctx)
 (:documentation "Get the keylist mode of CTX."))
```

```
(defmethod keylist-mode ((ctx context))
 (gpgme-get-keylist-mode ctx))
```

```
(defgeneric (setf keylist-mode) (mode ctx)
 (:documentation "Set the keylist mode of CTX to MODE."))
```

```
(defmethod
 (setf keylist-mode) (mode (ctx context))
 (gpgme-set-keylist-mode ctx mode))
```

;;; The context type: Accessor functions: Signers.

```
(defgeneric signers (ctx)
 (:documentation "Get the signers of CTX."))
```

```
(defmethod signers ((ctx context))
```

```
(slot-value ctx 'signers))
```

```
(defgeneric (setf signers) (signers ctx)
 (:documentation "Set the signers of CTX to SIGNERS."))
```

```
(defmethod (setf keylist-mode) (signers (ctx context))
 (gpgme-set-signers ctx signers)
 (setf (slot-value ctx 'signers) signers))
```

```
::: The context type: Accessor functions: Sig notations.
```

```
(defgeneric sig-notations (ctx)
 (:documentation "Get the signature notations of CTX."))
```

```
(defmethod sig-notations ((ctx context))
 (slot-value ctx 'signers))
```

```
(defgeneric (setf sig-notations) (notations ctx)
 (:documentation "Set the signature notations of CTX to NOTATIONS."))
```

```
(defmethod (setf sig-notations) (notations (ctx context))
 (gpgme-set-signers ctx notations)
 (setf (slot-value ctx 'notations) notations))
```

```
:::
```

```
The context type: Support macros.
```

```
(defmacro with-context ((ctx &rest rest) &body body)
 `(let ((,ctx (make-instance 'context ,@rest)))
 ,@body))
```

```
::: The key type.
```

```
(defclass key ()
 (c-key) ; The C key object pointer.
 (:documentation "The GPGME key type."))
```

```
::: In the initializer, we swallow the c-key argument.
```

```
(defmethod initialize-instance :after ((key key) &key c-key
 &allow-other-keys)
 (setf (slot-value key 'c-key) c-key)
 (finalize key (lambda () (gpgme-key-unref c-key))))
```

```
(defun translate-gpgme-key-t-from-foreign (value)
 (when *debug* (format t "DEBUG: import key: ~A~%" value))
 (make-instance 'key :c-key value))
```

```
(defun translate-gpgme-key-t-to-foreign (value)
```

:: Allow a pointer to be passed directly for the finalizer to work.

```
(if (pointerp value) value (slot-value value 'c-key)))
```

```
(defmethod print-object ((key key) stream)
 (print-unreadable-object (key stream :type t :identity t)
 (format stream "~s" (fpr key))))
```

::: The key type:

Accessor functions.

::: FIXME: The bitfield and flags contain redundant information at

::: this point. FIXME: Deal nicer with zero-length name (policy url)

::: and zero length value (omit?) and human-readable (convert to string).

::: FIXME: Turn binary data into sequence or vector or what it should be.

::: FIXME: Turn the whole thing into a hash?

```
(defun translate-gpgme-sig-notation-t-from-foreign (value)
```

```
(cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next name value name-len value-len flags bitfield)
 value (:struct gpgme-sig-notation))
```

```
(append (list (list
 :name name
 :value value
 :name-len name-len
 :value-len value-len
 :flags flags
 :bitfield bitfield))
 next))))
```

::: FIXME: Deal nicer with timestamps. bitfield field name?

```
(defun translate-gpgme-subkey-t-from-foreign (value)
```

```
(cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next bitfield pubkey-algo length keyid fpr timestamp expires)
 value (:struct gpgme-subkey))
```

```
(append (list (list
 :bitfield bitfield
 :pubkey-algo pubkey-algo
 :length length
 :keyid keyid
 :fpr fpr
 :timestamp timestamp
 :expires expires))
 next))))
```

```

(defun translate-gpgme-key-sig-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next bitfield pubkey-algo keyid timestamp expires status
 uid name email comment sig-class)
 value (:struct gpgme-key-sig))
 (append (list (list
 :bitfield bitfield
 :pubkey-algo pubkey-algo
 :keyid keyid
 :timestamp timestamp
 :expires expires
 :status status
 :uid uid
 :name name
 :email email
 :comment comment
 :sig-class sig-class))
 next))))))

```

```

(defun translate-gpgme-user-id-t-from-foreign (value)
 (cond
 ((null-pointer-p value) nil)
 (t (with-foreign-slots
 ((next bitfield validity uid name email comment signatures)
 value (:struct gpgme-user-id))
 (append (list (list
 :bitfield bitfield
 :validity validity
 :uid uid
 :name
name
 :email email
 :comment comment
 :signatures signatures))
 next))))))

```

```

(defun key-data (key)
 (with-slots (c-key) key
 (with-foreign-slots
 ((bitfield protocol issuer-serial issuer-name chain-id
 owner-trust subkeys uids keylist-mode)
 c-key (:struct gpgme-key))
 (list
 :bitfield bitfield
 :protocol protocol
 :issuer-serial issuer-serial

```

```

:issuer-name issuer-name
:chain-id chain-id
:owner-trust owner-trust
:subkeys subkeys
:uids uids
:keylist-mode keylist-mode))
))

```

```

(defgeneric fpr (key)
(:documentation "Get the primary fingerprint of the key."))

```

```

(defmethod fpr ((key key))
(getf (car (getf (key-data key) :subkeys)) :fpr))

```

;;; The context type: Crypto-Operations.

```

(defgeneric get-key (ctx fpr &optional secret)
(:documentation "Get the (secret) key FPR from CTX."))

```

```

(defmethod get-key ((ctx context) fpr &optional secret)
(gpgme-get-key ctx fpr secret))

```

;;; Encrypt.

```

(defgeneric
op-encrypt (ctx recp plain cipher &key always-trust sign)
(:documentation "Encrypt."))

```

```

(defmethod op-encrypt ((ctx context) recp plain cipher
&key always-trust sign)
(with-foreign-object (c-recp :pointer (+ 1 (length recp)))
(dotimes (i (length recp))
(setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
(setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
(with-gpgme-data (in plain)
(with-gpgme-data (out cipher)
(let ((flags))
(if always-trust (push :always-trust flags))
(cond
(sign
(c-gpgme-op-encrypt-sign ctx c-recp flags in out)
(append (c-gpgme-op-encrypt-result ctx)
(c-gpgme-op-sign-result ctx))))
(t
(c-gpgme-op-encrypt ctx c-recp flags in out)
(c-gpgme-op-encrypt-result ctx))))))))))

```



::: Decrypt.

```
(defgeneric op-decrypt (ctx cipher plain &key verify)
 (:documentation "Decrypt."))
```

```
(defmethod op-decrypt ((ctx context) cipher plain &key verify)
 (with-gpgme-data (in cipher)
 (with-gpgme-data
 (out plain)
 (cond
 (verify
 (c-gpgme-op-decrypt-verify ctx in out)
 (append (c-gpgme-op-decrypt-result ctx)
 (c-gpgme-op-verify-result ctx))))
 (t
 (c-gpgme-op-decrypt ctx in out)
 (c-gpgme-op-decrypt-result ctx))))))
```

::: Signing.

```
(defgeneric op-sign (ctx plain sig &optional mode)
 (:documentation "Sign."))
```

```
(defmethod op-sign ((ctx context) plain sig &optional (mode :none))
 (with-gpgme-data (in plain)
 (with-gpgme-data (out sig)
 (c-gpgme-op-sign ctx in out mode)
 (c-gpgme-op-sign-result ctx))))
```

::: Verify.

```
(defgeneric op-verify (ctx sig text &key detached)
 (:documentation "Verify."))
```

```
(defmethod op-verify ((ctx context) sig text &key detached)
 (with-gpgme-data (in sig)
 (with-gpgme-data (on text)
 (c-gpgme-op-verify ctx in (if detached on nil)
 (if detached nil on))
 (c-gpgme-op-verify-result ctx))))
```

::: Import.

```
(defgeneric op-import (ctx keydata)
 (:documentation "Import."))
```

```
(defmethod op-import ((ctx context) keydata)
```

```
(with-gpgme-data (in keydata)
 (c-gpgme-op-import ctx in)
 (c-gpgme-op-import-result ctx)))
```

```
::: Export.
```

```
(defgeneric op-export (ctx pattern keydata)
 (:documentation "Export public key data matching PATTERN to the
 stream KEYDATA."))
```

```
(defmethod op-export ((ctx context) pattern keydata)
 (with-gpgme-data (dh keydata)
 (c-gpgme-op-export ctx pattern 0 dh)))
```

```
::: Key generation.
```

```
:::
```

```
::: Initialization
```

```
:::
```

```
(defun check-version (&optional req-version)
 "Check that the GPGME version requirement is satisfied."
 (gpgme-check-version req-version))
```

```
(defparameter *version* (check-version)
 "The version number of GPGME used.")
(21:protected-private-key(3:elg(1:p193:5*n^f"Q'R0_6<y mec \=c7S8u[5
ZF'xf5yi9F@T=KhZdU0(k5nZEI/ R]njVITPU$W<xs-Yx)(1:g1:)(1:y192:O9GNR{?}Y_W[FD*zuRmk%'R\>>e9pe
eU)uS% VJ!5F)yH*O
]l'7{ @wJmQP^jurx'V2H2j[G{q_"8(0(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:o"%7:5242880)16:Hs*}u
)256:Gzk3%\Kb2=ooO@,)eBBI3F|OQP3eD%n,;~L-6UH^=64i);l
e+sG"(mlH_2sn_BBO7hRcZUt(p6,{5|37C3m8EY9=gQ)(12:protected-at15:20101008T070148)))
*- mode: org *-
#+TITLE: A Short History of the GPGME bindings for Python
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
```

```
* Overview
```

```
:PROPERTIES:
```

```
:CUSTOM_ID: overview
```

```
:END:
```

```
| Version: | 0.0.1 |
```

| GPGME Version: | 1.13.0 |  
| Author: | Ben McGinnes <ben@gnupg.org> |  
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |  
| Language: | Australian English, British English |  
| xml:lang: | en-AU, en-GB, en |

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

\*\* In the beginning

```
:PROPERTIES:
:CUSTOM_ID: in-the-begining
:END:
```

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.<sup>[fn:1]</sup> Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

\*\* Keeping the flame alive

```
:PROPERTIES:
:CUSTOM_ID: keeping-the-flame-alive
:END:
```

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

\*\* Passing the torch

```
:PROPERTIES:
:CUSTOM_ID: passing-the-torch
:END:
```

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

\*\* Coming full circle

```
:PROPERTIES:
:CUSTOM_ID: ouroboros
:END:
```

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of `=pyme3=`.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The `=pyme3=` module was renamed to `=gpg=` and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of `gpgme` Python bindings and continue building them from that point.

\* Relics of the past

```
:PROPERTIES:
:CUSTOM_ID: relics-past
:END:
```

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

\*\* The Annoyances of Git

```
:PROPERTIES:
:CUSTOM_ID: the-annoyances-of-git
:END:
```

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the `=lang/=` directory, along with a copy of the entire git log up to that point as a separate file within the `=lang/python/docs/=` directory.[fn:2]

As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

\*\* The Perils of PyPI

```
:PROPERTIES:
:CUSTOM_ID: the-perils-of-pypi
:END:
```

The early port of the Python 2 `pyme` module as `pyme3` was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from `pyme3` to `gpg`, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search for this module or a sample of its content:

1. `gpg` (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. `pyme` (0.9.0) - Python support for GPGME GnuPG cryptography library

\*\*\* GPG 180 - Python bindings for GPGME GnuPG cryptography library

```
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-180
:END:
```

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and `/only/` 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

```
*** PyME 090 - Python support for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-90
:END:
```

This is the last release of the PyME bindings maintained by Martin Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

\* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are located in the `=gpgme/lang/python/docs/old-commits.log=` file.

```
HACKING -*- org -*-
```

```
#+TITLE: Hacking notes for GPGME
```

```
#+STARTUP: showall
```

\* How to contribute

\*\* No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist" time. As such, there are strict requirements on the form of the commit log messages. The old ChangeLog files have all be renamed to ChangeLog-2011

## \*\* Commit log requirements

Your commit log should always start with a one-line summary, the second line should be blank, and the remaining lines are usually ChangeLog-style entries for all affected files. However, it's fine -- even recommended -- to write a few lines of prose describing the change, when the summary and ChangeLog entries don't give enough of the big picture. Omit the leading TABs that you're used to seeing in a "real" ChangeLog file, but keep the maximum line length at 72 or smaller, so that the generated ChangeLog lines, each with its leading TAB, will not exceed 80 columns. If you want to add text which shall not be copied to the ChangeLog, separate it by a line consisting of two dashes at the begin of a line.

Note that `./autogen.sh` installs a git hook to do some basic syntax checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry; thus you would use a commit message like

```
#+begin_example
Fix typo in a comment

--
#+end_example
```

The marker line here is important; without it the first line would appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may do this after this scissor line:

```
#+begin_example
----- >8 -----
#+end_example
```

(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).

Note that such a comment will be removed if the `git commit` option `--cleanup-scissor=` is used.

## \*\* License policy

GPGME is currently licensed under the LGPLv2.1+ with tools and the manual being under the GPLv3+. We may eventually update to a newer version of the licenses or a combination of them. It is thus important, that all contributed code allows for an update of the license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are asked to assert that the contribution is in accordance to the "GPGME Developer's Certificate of Origin" as found in the file "DCO". Except for a slight wording change, this DCO is identical to the one used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real name in the address and not a pseudonym. Anonymous contributions can only be done if you find a proxy who certifies for you.
- If your employer or school might claim ownership of code written by you; you need to talk to them to make sure that you have the right to contribute under the DCO.
- Send an OpenPGP signed mail to the `gnupg-devel@gnupg.org` public mailing list from your mail address. Include a copy of the DCO as found in the official master branch. Insert your name and email address into the DCO in the same way you want to use it later.

Example:

```
Signed-off-by: Joe R. Hacker <joe@example.org>
```

If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".)

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

#### \*\* Coding standards

Please follow the GNU coding standards. If you are in doubt consult the existing code as an example. Do no re-indent code without a need. If you really need to do it, use a separate commit for such a change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ `///  
//` style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to `char*` first.

#### \*\* Commit log keywords



- GnuPG-bug-id :: Values are comma or space delimited bug numbers from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporter.
- Suggested-by :: Value is a name or mail address of someone who suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

\* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME\_DEBUG enables debugging; see debug.[ch] for details.

Configuration files may go here. Note that config.h.in is auto-generated so that this file is not in git.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

\* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

\* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

\* libassuan.m4: Fix LIBASSUAN\_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

\* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

\* pth.m4: Fix code generation (required for Max OS X).  
Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

\* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

\* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14

Marcus Brinkmann <marcus@g10code.de>

\* pth.m4: Disable `_ac_pth_line`, and don't fail if Pth is not found.

\* glibc21.m4: New file.

\* gpg-error.m4: New file.

\* pth.m4: New file.

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=====

By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the free software license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate free software license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same free software license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the free software license(s) involved.

Signed-off-by: [Your name and mail address]

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

\* gpgme.lisp (size-t): Wrong call to defctype: function accepts optional, not keyword argument.

(ssize-t): Likewise.

(off-t): Likewise.

(gpgme-data-t, gpgme-ctx-t): Likewise.

(gpgme-error-t): Likewise.

(gpgme-error-no-signal-t): Likewise.

(gpgme-err-code-t): Likewise.

(gpgme-err-source-t): Likewise.

(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.

(gpgme-subkey-t): Likewise.

(gpgme-key-sig-t): Likewise.

(gpgme-user-id-t): Likewise.

(gpgme-key-t): Likewise.

(gpgme-data-cbs-t): Likewise.

(gpgme-invalid-key-t): Likewise.

(gpgme-op-encrypt-result-t): Likewise.

(gpgme-recipient-t): Likewise.

(gpgme-op-decrypt-result-t): Likewise.

(gpgme-new-signature-t):

Likewise.

(gpgme-op-sign-result-t): Likewise.

(gpgme-signature-t): Likewise.

(gpgme-op-verify-result-t): Likewise.

(gpgme-import-status-t): Likewise.

(gpgme-op-import-result-t): Likewise.

(gpgme-op-genkey-result-t): Likewise.

(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

\* Initial release.

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# -\*- mode: org -\*-

#+TITLE: What Was New in the GPGME Python Bindings and Documentation

#+AUTHOR: Ben McGinnes

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

#+LATEX\_CLASS\_OPTIONS: [12pt]

#+LATEX\_HEADER: \usepackage{xltextra}

#+LATEX\_HEADER: \usepackage[margin=1in]{geometry}

#+LATEX\_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}

#+LATEX\_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

\* What Was New

:PROPERTIES:

:CUSTOM\_ID: new-stuff

:END:

| Version: | 0.0.1 |  
| GPGME Version: | 1.13.0 |  
| Author: | Ben McGinnes <ben@gnupg.org> |  
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |  
| Language: | Australian English, British English |  
| xml:lang: | en-AU, en-GB, en |

The following are all the past /What's New/ sections for the Python Bindings HOWTO and other documentation.

\*\* What Was New in GPGME 1120

:PROPERTIES:

:CUSTOM\_ID: gpgme-1-12-0

:END:

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

\*\*\* New in GPGME 1.12.0

:PROPERTIES:

:CUSTOM\_ID: new-stuff-1-12-0

:END:

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

- an expanded section on [\[\[file:gpgme-python-howto#installation\]\[installing\]\]](#) and [\[\[file:gpgme-python-howto#snafu\]\[troubleshooting\]\]](#) the Python bindings.
- The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python versions list in the build process.
- In order to fix some other issues, there are certain underlying functions which are more exposed through the [\[\[file:gpgme-python-howto#howto-get-context\]\[gpg.Context\(\)\]\]](#), but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to `=gpg.core=` and the `=Context()=`, however, were intended (see below).
- Continuing work in identifying and confirming the cause of oft-reported [\[\[file:gpgme-python-howto#snafu-runtime-not-funtime\]\[problems installing the Python bindings on Windows\]\]](#).
- GSOC: Google's Surreptitiously Ordered Conscriptio ... erm ... oh, right; Google's Summer of Code. Though there were two hopeful candidates this year; only one ended up involved with the GnuPG Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the `key_import` function; building on prior work by Tobias Mueller.
- Several new methods functions were added to the `gpg.Context()`, including: [\[\[file:gpgme-python-howto#howto-import-key\]\[key\\_import\]\]](#), [\[\[file:gpgme-python-howto#howto-](#)

export-key][key\_export]], [[file:gpgme-python-howto#howto-export-public-key][key\_export\_minimal]] and [[file:gpgme-python-howto#howto-export-secret-key][key\_export\_secret]].

- Importing and exporting examples include versions integrated with Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some [[file:gpgme-python-howto#hkp4py][additional notes on this module]] are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavours ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.
- Semi-formalised the location where [[file:gpgme-python-howto#draft-editions][draft versions]] of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.
- The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).
- a reStructuredText (=rst=) version is also generated for Python developers more used to and comfortable with that format as it is the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
- 
- Added a new section for [[file:gpgme-python-howto#advanced-use][advanced or experimental use]].
- Began the advanced use cases with [[file:gpgme-python-howto#cython][a section]] on using the module with [[https://cython.org/][Cython]].
- Added a number of new scripts to the =example/howto/= directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).
- Cleaned up a lot of things under the hood.

```

000
 *H
010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0
981029180310Z
011231180310Z010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0"0
 *H
0
nkvS2r#iA4H|*/

```

:Sd;v  
tD}L+~IWWD|eP&qH)  
!l\p%,1.tlsmnQ,g-W)@\t<kvm5j(d)9M\_KGQJ0:qTE 00 `HB0) `HBhttps://mystic.pca.dfn.de/0A  
`HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html08 `HB  
+)The DFN Top Level Certification Authority0! `HBcgi/check-rev.cgi?0 `HB  
dfnpca.crl0U00U0  
\*H  
^[:8\|e7\*%QC?:/JVgwPUB  
OgGqjGVxl50%<`Pb18 z;t~r0U<A%3#l'8b"<iX"V!k"\*Q8&hAPI"3 00KUub&Qq'46\_{D[JZ!i<=T  
/OF

Wenn Sie dies lesen können, ist es wohl nicht  
geheim genug.

1.13.1

This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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INFO-DIR-SECTION GNU Libraries

START-INFO-DIR-ENTRY

\* GPGME: (gpgme). Adding support for cryptography to your program.

END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The  
GnuPG Made Easy Reference Manual, for Version  
1.12.1-beta100.

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gpgme.info-1: 1689

gpgme.info-2: 301885

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Node: Key Management129474  
Node: Key objects130702  
Node: Listing Keys144926  
Node: Information About Keys153579  
Node: Manipulating Keys154887  
Node: Generating Keys155457  
Node: Signing Keys173777  
Node: Exporting Keys177410  
Node: Importing Keys184349  
Ref: Importing Keys-Footer-1191752  
Node: Deleting Keys191880  
Node: Changing Passphrases194160  
Node: Changing TOFU Data195487  
Node: Advanced Key Editing197595  
Node: Trust Item Management200328  
Node: Listing Trust Items201364  
Node: Manipulating Trust Items203725  
Node: Crypto Operations204368  
Node:  
  Decrypt205632  
Node: Verify212946  
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Node: Sign228521

Node: Selecting Signers229085  
Node: Creating a Signature230491  
Node: Signature Notation Data235261  
Node: Encrypt237546  
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Node: Miscellaneous252314  
Node: Running other Programs252726  
Node: Using the Assuan protocol254889  
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Node: I/O Callback Interface267345  
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Node: I/O Callback Example274624  
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Node: UI Server Protocol289276  
Ref: UI Server Protocol-Footnote-1290711  
Node: UI Server Encrypt290830  
Node: UI Server Sign296188  
Node: UI Server Decrypt298541  
Node: UI Server Verify301885  
Node: UI Server Set Input Files305457  
Node: UI Server Sign/Encrypt Files306527  
Node: UI Server Verify/Decrypt  
Files308335  
Node: UI Server Import/Export Keys310211  
Node: UI Server Checksum Files311273  
Node: Miscellaneous UI Server Commands313491  
Ref: command SENDER315422  
Node: Debugging317124  
Node: Deprecated Functions318873  
Node: Library Copying344090  
Node: Copying372310  
Node: Concept Index410060  
Node: Function and Data Index425058

End Tag Table

Local Variables:

coding: utf-8

End:

hkp4py

requests

```

\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename what-was-new.info
@settitle What Was New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What Was New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What Was New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What Was New::

@detailmenu
--- The Detailed Node Listing ---

What Was New

* What Was New in GPGME 1120::

What Was New in GPGME 1120

* New in GPGME 1120::

@end detailmenu
@end menu

@node What Was New
@chapter What Was New

@multitable {aaaaaaaaaaaaaaaa} {aa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>

```

@item Author GPG Key:  
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D  
@item Language:  
@tab Australian English, British English  
@item  
xml:lang:  
@tab en-AU, en-GB, en  
@end multitable

The following are all the past `@emph{What's New}` sections for the Python Bindings HOWTO and other documentation.

@menu  
\* What Was New in GPGME 1120::  
@end menu

@node What Was New in GPGME 1120  
@section What Was New in GPGME 1120

The most obviously new point for those reading this guide is this section on other new things, but that's hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

@menu  
\* New in GPGME 1120::  
@end menu

@node New in GPGME 1120  
@subsection New in GPGME 1120

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additions are:

@itemize  
@item  
an expanded section on `@uref{gpgme-python-howto#installation, installing}` and `@uref{gpgme-python-howto#snafu, troubleshooting}` the Python bindings.  
@item  
The release of Python 3.7.0; which appears to be working just fine with our bindings, in spite of intermittent reports of problems for many other Python projects with that new release.  
@item

Python 3.7 has been moved to the head of the specified python versions list in the build process.

@item

In order to fix some other issues, there are certain underlying functions which are more exposed through the @uref{gpgme-python-howto#howto-get-context, gpg.Context()}, but ongoing documentation ought to clarify that or otherwise provide the best means of using the bindings. Some additions to @samp{gpg.core} and the @samp{Context()}, however, were intended (see below).

@item

Continuing work in identifying and confirming the cause of oft-reported @uref{gpgme-python-howto#snafu-runtime-not-funtime, problems installing the Python bindings on Windows}.

@item

GSOC: Google's Surreptitiously Ordered Conscriptio@dots{ } erm @dots{ } oh, right; Google's Summer of Code. Though there were two hopeful candidates this year;

only one ended up involved with the GnuPG

Project directly, the other concentrated on an unrelated third party project with closer ties to one of the GNU/Linux distributions than to the GnuPG Project. Thus the Python bindings benefited from GSOC participant Jacob Adams, who added the key@math{\_import} function; building on prior work by Tobias Mueller.

@item

Several new methods functions were added to the gpg.Context(), including: @uref{gpgme-python-howto#howto-import-key, key@math{\_import}}, @uref{gpgme-python-howto#howto-export-key, key@math{\_export}}, @uref{gpgme-python-howto#howto-export-public-key, key@math{\_export}@math{\_minimal}} and @uref{gpgme-python-howto#howto-export-secret-key, key@math{\_export}@math{\_secret}}.

@item

Importing and exporting examples include versions integrated with Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some @uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end of the HOWTO.

@item

Instructions for dealing with semi-walled garden implementations like ProtonMail are also included. This is intended to make things a little easier when communicating with users of ProtonMail's services and should not be construed as an endorsement of said service. The GnuPG Project neither favours, nor disfavors ProtonMail and the majority of this deals with interacting with the ProtonMail keyserver.

@item

Semi-formalised the location where @uref{gpgme-python-howto#draft-editions, draft versions} of this HOWTO may periodically be accessible. This is both for the reference of others and testing the publishing of the document itself. Renamed this file at around the same time.

@item

The Texinfo documentation build configuration has been replicated from the parent project in order to make to maintain consistency with that project (and actually ship with each release).

@item

a reStructuredText (@samp{.rst}) version is also generated for Python developers more used

to and comfortable with that format as it is

the standard Python documentation format and Python developers may wish to use it with Sphinx. Please note that there has been no testing of the reStructuredText version with Sphinx at all. The

reST file was generated by the simple expedient of using @uref{https://pandoc.org/, Pandoc}.

@item

Added a new section for @uref{gpgme-python-howto#advanced-use, advanced or experimental use}.

@item

Began the advanced use cases with @uref{gpgme-python-howto#cython, a section} on using the module with @uref{https://cython.org/, Cython}.

@item

Added a number of new scripts to the @samp{example/howto/} directory; some of which may be in advance of their planned sections of the HOWTO (and some are just there because it seemed like a good idea at the time).

@item

Cleaned up a lot of things under the hood.

@end itemize

@bye

Additional license notices for GPGME.                   -\*- org -\*-

This file contains the copying permission notices for various files in the GPGME distribution which are not covered by the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.

\* MIT License

For files:

- cJSON.c, cJSON.h

#+begin\_quote

Copyright (c) 2009 Dave Gamble

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```
#+end_quote
-*- mode: org -*-
#+TITLE: Maintenance Mode
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}
```

```
* Maintenance Mode from 2019
:PROPERTIES:
:CUSTOM_ID: maintenance-mode
:END:
```

```
Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en
```

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made.

This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

\*\* Maintainer from 2019 onward

```
:PROPERTIES:
:CUSTOM_ID: maintenance-mode-bm
:END:
```

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

\*\* Using the Python Bindings from 2019 and beyond

```
:PROPERTIES:
:CUSTOM_ID:
maintenance-mode-blade-runner
:END:
```

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.



Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [\[\[https://lists.gnupg.org/mailman/listinfo/gnupg-devel\]\]](https://lists.gnupg.org/mailman/listinfo/gnupg-devel) [gnupg-devel mailing list].

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those

with a commercial interest in expediting such a feature request already know how to [\[\[https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset\]\]](https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset) [expedite it] (use the message field to state what feature is being requested).

\*\* Documentation formats

```
:PROPERTIES:
:CUSTOM_ID: docs
:END:
```

The documentation has been written in Org mode for GNU Emacs, with both Texinfo and reStructuredText formats generated from that. The Texinfo files are intended for use with the rest of the GnuPG documentation; while the reStructuredText files are intended for use with Docutils and Sphinx, as with other Python projects.

\*\*\* Cautionary Notes regarding Sphinx and EPUB

```
:PROPERTIES:
:CUSTOM_ID: sphinx-made-epubs-suck
:END:
```

Though Python's Docutils in conjunction with Sphinx is capable of generating some very useful HTML sites, as proven by [\[\[https://readthedocs.org/\]\]](https://readthedocs.org/) [Read the Docs] and the [\[\[https://docs.python.org/\]\]](https://docs.python.org/) [Python documentation], there are a number of output formats it does not

handle well. At the top of the list of things it manages to break so atrociously as to be embarrassing is the [\[\[http://idpf.org/epub/\]\]](http://idpf.org/epub/) [EPUB 3] format.

The automatically generated EPUB of the CPython documentation always

contains hundreds of validation errors and even the modest amount of documentation here [<https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub>][produced a file] with approximately thirty validation errors. As the volume of documentation content increases, so does the induced errors. Whereas Texinfo doesn't produce EPUB output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a [<https://dev.gnupg.org/maniphest/task/edit/form/4/>][feature request] case marked for [<https://dev.gnupg.org/p/BenM/>][my] attention. The means of generating such files flawlessly is already available, but is not yet part of the GnuPG build system. Nor is it integrated with a means of converting Org

mode input files to the relevant base format automatically, as can already be done when converting Org to reStructuredText or Org to Texinfo. As a certain amount of work would be required to get it done, there would need to be clear demand for that work to be done.

Just GNU it!

```
(1:private-key(3:dsa(1:p129:eC_L&$2,6tx.gh1VirlqI9
,^g3.$DveUvX1'oIj)(1:q21: #UFK2z(tuVG)(1:g128:zu^Rab;qeQQA B?/6/aspfE/
gx!Mr0YY*oMrJc2xWG:.r6)(1:y128:Uf]j^@oEn4j#QrRq" RcEa E/)4C[3A
5+~~.#!+
)W&5d)j)(1:x21:`)))
```

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

- \* m4/pth.m4: Removed.
- \* configure.ac: Remove check for pth and automake conditional HAVE\_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

- \* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

- \* Makefile.am (SUBDIRS): Remove complus.
- \* configure.ac (AC\_CONFIG\_FILES): Remove complus/Makefile. (BUILD\_COMPLUS): Remove AM\_CONDITIONAL.

\* complus/: Remove very old and stale component.

\* acinclude.m4 (GNUPG\_FIX\_HDR\_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

\* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

\* autogen.sh (--build-w32):

Support option --build-w64.

\* configure.ac (HAVE\_W64\_SYSTEM): Define.

(INSERT\_\_TYPEDEFS\_FOR\_GPGME\_H): New.

(GPGME\_CONFIG\_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

\* configure.ac (NEED\_LIBASSUAN\_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

\* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys/types.h and sys.stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

\* configure.ac (AH\_BOTTOM): Define GPG\_ERR\_ENABLE\_ERRNO\_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

\* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Update the thing.

\* configure.ac: Check for locale.h.

2010-05-06

Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Detect Windows CE.

(HAVE\_W32CE\_SYSTEM): New symbol and automake conditional.

\* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

\* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

\* configure.ac (emacs\_local\_vars\_begin)

(emacs\_local\_vars\_read\_only, emacs\_local\_vars\_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

\* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Do not use echo -n. Test for \_\_thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

\* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.

\* configure.ac: Invoke AC\_CONFIG\_MACRO\_DIR.

(AC\_LIBTOOL\_WIN32\_DLL,

AC\_LIBTOOL\_RC): Replace by ...

(LT\_PREREQ, LT\_INIT, LT\_LANG): ... these.

\* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:

Updated to libtool 2.2.6a.

\* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4,

m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Activate UI Server if FD passing is enabled and Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for argp.h and error\_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION\_DEFAULT): Bump to 1.4.0 as 1.3.0 was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_CONFIG\_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Replace internal libassuan by external libassuan.

\* m4/libassuan.m4:

New file.

\* Makefile.am (assuan): Remove variable.

(SUBDIRS): Remove \${assuan}.

\* assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add AC\_TYPE\_UINTPTR\_T.

\* assuan/assuan.h [\_ASSUAN\_IN\_GPGME\_BUILD\_ASSUAN]: Declare \_gpgme\_io\_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

Released GPGME 1.2.0.

\* configure.ac (my\_version): Set to 1.2.0.

(LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump.

(LIBGPGME\_LT\_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add infrastructure for compile time check of  
\_FILE\_OFFSET\_BITS.

2009-04-19 Moritz <moritz@gnu.org>

\* Makefile.am (DISTCHECK\_CONFIGURE\_FLAGS): Specify --with-gpg.

2009-03-06 Marcus Brinkmann <marcus@g10code.de>

\* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CONFIG\_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME

1.1.8.

\* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

\* configure.ac: Replace gpgme paths with src.

\* gpgme: Move to ...

\* src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_CONFIG\_FILES): Add gpgme.h.

(GNUPG\_FIX\_HDR\_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

\* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

\* configure.ac (\_XOPEN\_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

\* config.guess, config.sub: Update to 2007-11-19. Also update missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

\* configure.ac (AC\_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Bump required version of automake up to 1.10.  
\* autogen.sh: Fix  
aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

\* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

\* assuan-pipe-connect.c (pipe\_connect\_gpgme): Do not close process handle here. Use this function also on Unix systems.

\* assuan-pipe-connect.c (pipe\_connect\_gpgme): Fix last change.

\* assuan-pipe-connect.c (pipe\_connect\_gpgme): New function, use it if \_ASSUAN\_IN\_GPGME\_BUILD\_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>

\* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for C++, Qt and support --enable-w32-qt.  
\* m4/pkg.m4: New file.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (--enable-w32-glib): Use --enableval, not --withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

\* assuan/assuan-socket.c (\_assuan\_close): Always use close().

\* assuan/assuan.h (`_gpgme_io_close`): New prototype.  
(close): New  
macro, define as `_gpgme_io_close`.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

\* assuan/assuan-io.c (`_assuan_simple_read`, `_assuan_simple_write`):  
Always use read/write (which means `_gpgme_io_read` and  
`_gpgme_io_write`).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

\* `configure.ac` (`LIBGPGME_LT_REVISION`): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

\* `configure.ac` (`GPGSM_DEFAULT`) [`*-mingw32*`]: Initialize it.  
(`HAVE_ASSUAN_H`): Set to 1 if we have it.  
(`funopen`): Use `AC_REPLACE_FUNCS`.  
(`USE_DESCRIPTOR_PASSING`): Define to 1 if we have it. Do not  
define it at all if we don't.  
(`NETLIBS`) [`have_w32_system`]: Add `-lws2_32`.  
(`DIRSEP_C`, `DIRSEP_S`, `EXPSEP_C`, `EXPSEP_S`, `PATHSEP_S`)  
(`HAVE_DOSISH_SYSTEM`): Remove definitions.

\* `assuan/assuan.h` (`_assuan_funopen`): Define to `_gpgme_funopen`.  
\* `assuan/funopen.c`: Move to `../gpgme/funopen.c`.  
\* `assuan/Makefile.am` (`libassuan_la_SOURCES`): Remove `funopen.c`.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

\*  
`assuan/Makefile.am` (`INCLUDES`): Include `$(top_srcdir)/gpgme`.  
\* `assuan/assuan.h`: Include `<ath.h>` instead of trying to duplicate  
the definitions.

\* `assuan/`: Update files to 2007-07-04 version of `assuan`.

\* `autogen.sh`: Use `=` not `==` in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

\* `configure.ac` (`LIBGPGME_LT_REVISION`): Bump for release.



\* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

\* configure.ac: Changed gpg and gpgsm version checks to work with arbitrary names of the gpg binary. New option --disable-gpg-test and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

\* configure.ac (NEED\_GPG\_VERSION, NEED\_GPGSM\_VERSION): Must define after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

\* configure.ac: Require gpg-error 1.4 due to the use of gpg\_error\_from\_syserror.  
(HAVE\_ASSUAN\_H):  
New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add options --with-gpg-version and --with-gpgsm-version to allow overriding the minimum version requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Use descriptor passing only if --enable-fd-passing is provided.

\* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Turn stpcpy into a replacement function.  
Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

\* lang, lang/cl: New subdirectories.

\*

lang/Makefile.am, lang/README: New files.

\* configure.ac (AC\_CONFIG\_FILES): Add lang/Makefile,  
lang/cl/Makefile and lang/cl/gpgme.asd.

\* Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump for  
release.

(LIBGPGME\_LT\_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

\* configure.ac: Test for inline feature.

(AH\_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

\* configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

\* configure.ac (BUILD\_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add support for --enable-w32-glib (disabled by  
default). Invoke AM\_PATH\_GLIB\_2\_0.

2005-11-16 Werner Koch <wk@g10code.com>

\* configure.ac  
(CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

\* configure.ac: Create BUILD\_FILEVERSION from SVN Revision.

\* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

\* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove files.

\* configure.ac: Instead checking for windres and dlltool, invoke AC\_LIBTOOL\_WIN32\_DLL and AC\_LIBTOOL\_RC.

\* src/Makefile.am [HAVE\_W32\_SYSTEM]: Use libtool, which simplifies the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump for release.

(LIBGPGME\_LT\_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (HAVE\_PTH): Don't add \$PTH\_CFLAGS to \$CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

\* configure.ac (SEPCONSTANTS): New to define DIRSEP\_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

\*

configure.ac [W32]: Create values for versioninfo.rc and list substitute versioninfo.rc.

\* configure.ac: Define ENABLE\_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

\* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AH\_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

\* acinclude.m4 (GNUPG\_CHECK\_VA\_COPY): Assume no when cross-compiling.

\* Makefile.am (EXTRA\_DIST): Include autogen.sh

\* autogen.sh: Added the usual code to build for W32 (--build-w32).

\* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.

(HAVE\_DRIVE\_LETTERS): Removed.

(HAVE\_W32\_SYSTEM): Added.

(AC\_GNU\_SOURCE): New to replace the identical AH\_VERBATIM.

(AH\_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

\* Makefile.am (AUTOMAKE\_OPTIONS): Build bzip 2 version.

(ACLOCAL\_AMFLAGS): Add -I m4.

\* configure.ac: Require automake 1.9.3 and autoconf 2.59.

\* acinclude.m4:

Changed quoting for automake 1.9.

\* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Replace ttypename\_r if it doesn't exist (and warn in that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

\* README: Refer to COPYING.LESSER and "each file" instead of COPYING.

\* COPYING.LESSER: New file.

\* gpgme.spec.in (%doc): Add COPYING.LESSER.

\* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL 2.1 or later.

\* TODO: Add copyright notice.

\* README.CVS: Likewise.

\* configure.ac (GPGSM\_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 2.  
(AC\_INIT): Set version to 1.0.1.

\* configure.ac: Set HAVE\_GPGSM to true only if \$GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 1.  
(AC\_INIT): Set version to 1.0.0.

\* Makefile.am  
(EXTRA\_DIST): Remove README-alpha.  
\* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Disable AC\_CONFIG\_MACRO\_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Improve diagnostics with version check.

\* configure.ac: Print diagnostics about found thread libraries at  
the end. Check for the versions of GPG and GPGSM and print the  
found versions at the end.  
(HAVE\_GPGSM): Do not require GPGSM to exist and be readable.  
(AC\_CONFIG\_MACRO\_DIR): Invoke with argument m4.

\* acinclude.m4: Add copyright notice.  
(jm\_GLIBC21, AM\_PATH\_GPG\_ERROR, \_AC\_PTH\_ERROR, \_AC\_PTH\_VERBOSE,  
AC\_CHECK\_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Check for <sys/uiio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

\* configure.ac (AC\_INIT): Set version number to 0.9.0.  
(LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump up by one.  
(LIBGPGME\_LT\_REVISION): Reset to zero.

2004-05-21

Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (GPGME\_CONFIG\_API\_VERSION): New variable, substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

\* autogen.sh: Added ACLOCAL\_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>

Released 0.4.6.

\* config.guess, config.sub, ltmain.sh: Updated to those from libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

\* configure.ac (NEED\_GPGSM\_VERSION): Bump up to 1.9.6.

\* Makefile.am (EXTRA\_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

\* configure.ac: Make the check for funopen fail with just a warning.

2004-02-11 Werner Koch <wk@gnupg.org>

\* autogen.sh (check\_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>

\* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte

<mo@g10code.com>

\* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add invocation of AC\_SYS\_LARGEFILE, AC\_TYPE\_OFF\_T and AC\_FUNC\_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

\* configure.ac: Bumbed LT\_Revision; now at C12/A1/R1.

(NEED\_GPGSM\_VERSION): Set to 1.9.3.

(min\_automake\_version): Added.

\* README.CVS: New.

\* Makefile.am (EXTRA\_DIST): Added README.CVS.

\* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

\* acinclude.m4: Add AM\_PATH\_GPG\_ERROR.

\* configure.ac: Check for timegm. Made warning messages more prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

\* configure.ac (LIBGPGME\_LT\_CURRENT, LIBGPGME\_LT\_AGE): Bump up by 1.

(LIBGPGME\_LT\_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Require libgpg-error 0.5.

\* acinclude.m4: Remove libtool cruft, add jm\_GLIBC21.

\* configure.ac: Add check for getenv\_r, and call jm\_GLIBC21.

Define HAVE\_THREAD\_SAFE\_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Remove GPGME\_CONFIG\_LIBS and GPGME\_CONFIG\_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Move invocation of AC\_CANONICAL\_HOST up to suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

\* gpgme.spec.in: % {\_infodir}/dir is not packaged,  
remove to prevent checking failure.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: If building Assuan, check for funopen and  
fopencookie, and make isascii, putc\_unlocked and memchr  
replacement functions.  
(AM\_PATH\_GPG\_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac:  
Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_CURRENT): Bump up to 11.

\* configure.ac: Use AM\_PATH\_GPG\_ERROR.

\* configure.ac: Check for libgpg-error. Define  
GPG\_ERR\_SOURCE\_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPG\_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme\* type names with the new gpgme\_\*  
type names.



2003-02-01 Marcus Brinkmann <marcus@g10code.de>

\* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

\* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile, bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.

\* configure.ac: Remove automake conditional BUILD\_BONOBO (AC\_CONFIG\_FILES): Remove bonobo/Makefile.

\*

Makefile.am (bonobo): Remove variable.

(SUBDIRS): Remove \${bonobo}.

\* configure.ac: Remove all uses of GNUPG\_CHECK\_TYPEDEF, for byte, ushort, ulong, u16 and u32.

\* acinclude.m4 (GNUPG\_CHECK\_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: New conditional HAVE\_LD\_VERSION\_SCRIPT. Call AC\_CANONICAL\_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh (automake\_vers): Require 1.7 (really 1.7.1) for the conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (LIBGPGME\_LT\_CURRENT): Increase by one. (LIBGPGME\_LT\_AGE, LIBGPGME\_LT\_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

\* NEWS: Add note about moving "gpgmeplug" to the "cryptplug" package.

\* README: Remove instructions related to "gpgmeplug".

\* configure.ac:

Remove enable option "gpgmeplug" and automake

conditional BUILD\_GPGMEPLUG, as well as the status info about it.

(GPGMEPLUG): Remove variable.  
\* Makefile.am (gpgmeplug): Remove variable.  
(SUBDIRS): Remove \${gpgmeplug}.  
\* cryptplug.h, gpgme-openpgp.c, gpgmeplug.dox, gpgme-smime.c,  
Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add automake conditional HAVE\_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Bump version up to 0.4.0.  
(NEED\_GPG\_VERSION): Bump up to 1.2.0.  
(NEED\_GPGSM\_VERSION): Bump up to 0.9.0.  
\* README: Update version numbers.  
\* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

\* configure.ac: Bump up LIBGPGME\_LT\_REVISION.

\* configure.ac (AC\_CHECK\_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann  
<marcus@g10code.de>

\* autogen.sh (autoconf\_vers): Bump up to 2.53 to get the @&t@  
quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Create and substitute LTLIBOBS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

\* NEWS: Update for 0.3.9 release.

\* configure.ac: Bump up LIBGPGME\_LT\_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

\* gpgme.spec.in: Changed user name in Wojciech Polak's email address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

\* acinclude.m4 (GNUPG\_CHECK\_VA\_COPY): New.  
\* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

\* configure.ac (GPGME\_CONFIG\_CFLAGS): Renamed from GPGME\_CFLAGS and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Bump version number to 0.3.10.

\* NEWS: Add template for development version.

2002-08-21

Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

\* NEWS: Update for 0.3.9 release.

\* Makefile.am (EXTRA\_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog,  
jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h,  
jnlib/logging.c, jnlib/logging.h, jnlib/Makefile.am,  
jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c,  
jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h,  
jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (SUBDIRS): Remove jnlib.

\* configure.ac: Don't check for unsigned short or unsigned long.

Don't check for memicmp, strtlwr, strtoul, memmove, stricmp.

Make stpcpy a replaced function.

Don't define HAVE\_JNLIB\_LOGGING.

Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

\* configure.ac: Bumbed version number to 0.3.9; add a comment on when to change it.

\* gpgme.spec.in:

New. Contributed by Wojciech Polak.

\* Makefile.am (dist-hook): New.

\* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

\* configure.ac: Bumbed LT version to 9/3/0.

(NEED\_GPGSM\_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

\* configure.ac (AC\_INIT): Set version to 0.3.7.

(LIBGPGME\_LT\_REVISION): Add one.

\* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

\* acinclude.m4: Fix Pth check so that it doesn't error out if pth is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add checks for Pth and pthreads.

\* acinclude.m4: Add slightly hacked check for pth (seems to be an autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

\* configure.ac (NEED\_GPGSM\_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05

Marcus Brinkmann <marcus@g10code.de>

\* acconfig.h: File removed.

\* configure.ac (NEED\_GPG\_VERSION): Add description.  
(NEED\_GPGSM\_VERSION): Likewise.  
(HAVE\_DOSISH\_SYSTEM): Likewise.  
(HAVE\_DRIVE\_LETTERS): Likewise.  
(GPG\_PATH): Likewise.  
(GPGSM\_PATH): Likewise.  
\* acinclude.m4 (GNUPG\_CHECK\_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac: Add automake conditional HAVE\_DOSISH\_SYSTEM.

2002-03-04 Werner Koch <wk@gnupg.org>

\* configure.ac: Bumbed version to 0.3.4-cvs to continue development.

Released 0.3.4.

\* configure.ac: Bumbed LT version numbers to (7,1,0), requires  
gpgsm 0.3.1.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT): Change version number to snapshot CVS  
version.

2002-02-13 Werner Koch <wk@gnupg.org>

\* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_INIT):

Bump version to 0.3.3.

\* jnlib/Makefile.am: Revert to older version that includes xmalloc  
but not dotlock and some other files. Reported by Stphane  
Corthsy.

2002-02-10 Marcus Brinkmann <marcus@g10code.de>

\* Released 0.3.2.

\* configure.ac (AC\_INIT): Bump version to 0.3.2.

\* jnlib/libjnlibconfig.h: Revert to older version that doesn't

expect libcrypt. Reported by Jose Carlos Garcia Sogo  
<jsogo@debian.org>.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* Released 0.3.1.

\* configure.ac (LIBGPGME\_LT\_CURRENT): Bump it up to 6!  
(NEED\_GPGSM\_VERSION): Bump it up to 0.3.0!  
(AC\_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (HAVE\_JNLIB\_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

\* configure.ac (VERSION,PACKAGE): Defined and subst. Used for  
AM\_INIT\_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh (libtool\_vers):  
Bump to 1.4.

\* configure.ac (LIBGPGME\_LT\_CURRENT): Increment.  
(LIBGPGME\_LT\_AGE): Reset.  
Improve comment.  
Fix wrong comment character.

2001-12-18 Werner Koch <wk@gnupg.org>

\* acinclude.m4 (GNUPG\_FIX\_HDR\_VERSION): Fixed for new automake.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (GPG): Substitute this variable.  
(GPGSM): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (AC\_CONFIG\_FILES): Add tests/gpg/Makefile and  
tests/gpgsm/Makefile.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if  
[BUILD\_GPGMEPLUG].

\* configure.ac (AC\_CONFIG\_FILES): Add gpgmeplug/Makefile.  
Support --enable-gpgmeplug.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Tighten version dependencies.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (SUBDIRS): Support building the assuan library  
(currently if GPGSM\_PATH is set)..

\* configure.ac: Support building  
the assuan library.

\* assuan: New directory, populated with the Assuan library  
(copied from the newpg repository).

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

\* configure.ac (NEED\_GPGSM\_VERSION): New variable. Treat it  
similarly to NEED\_GPG\_VERSION.

\* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

\* configure.in: Renamed to ...

\* configure.ac: ... this. Update to autoconf 2.52. Lots of small  
changes in the transition. Support --with-gpg=PATH and  
--with-gpgsm=PATH options. Check if test suites can be run.

\* acconfig.h: Add GPGSM\_PATH.

\* Makefile.am: New variable `tests', set to `tests' if  
RUN\_GPG\_TESTS.

(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

\* autogen.sh: Invoke automake with `-a' (add missing files).

Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

\* configure.in (NEED\_GPG\_VERSION): Set to 1.0.6. Incremented LT  
current  
and age.

\* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

\* configure.in (NEED\_GPG\_VERSION): Set to 1.0.4g

2001-04-02 Werner Koch <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28 Werner Koch <wk@gnupg.org>

Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

\* autogen.sh: Added option --build-w32.

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2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting on December 1st, 2011 we put change information only in the GIT commit log, and generate a top-level ChangeLog file from logs at "make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

\* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...  
(CLEANFILES): ... here.  
(clean-local): New rule.  
\* gpg/Makefile.am (DISTCLEANFILES): Move to ...  
(CLEANFILES): ... here.



2011-05-05 Marcus Brinkmann <marcus@g10code.com>

\* gpg/Makefile.am: Unset GPG\_AGENT\_INFO when setting up local configuration.

(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

\* gpg/t-import.c (check\_result): Complete secret key pair counting and disable status check, as GPG 2.1 currently emits two IMPORT\_OK lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

\* gpg/Makefile.am (DISTCLEANFILES):

Add S.gpg-agent.

(mkdemodirs, ./Alpha/Secret.gpg): Remove targets.

(GNUPGHOME): Export as absolute build directory (for gpg-agent).

(./pubring.gpg): Remove --homedir option, import secdemo.asc.

(clean-local): Rewrite.

\* gpg/secdemo.asc: New file.

\* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to "abc" (now needed as GnuPG 2.1 asks for secret key passphrase on import).

\* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.

(main): Disable check for can\_encrypt, as this is now in a different subkey.

\* gpg/t-encrypt-sign.c (check\_result): Allow RMD160 hash algorithm.

\* gpg/t-import.c (check\_result): One secret key pair now counts as two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

\* run-support.h (fail\_if\_err): Include program name.

\* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

\* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

\* run-verify.c:

New.

2009-08-06 Werner Koch <wk@g10code.com>

\* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

\* run-keylist.c (main): Add options --cms and --openpgp.

\* gpg/pgp-keylist.c: Rename to ...

\* run-keylist.c: ... this.

\* gpg/pgp-import.c: Rename to ...

\* run-import.c: ... this.

\* gpg/pgp-export.c: Rename to ...

\* run-export.c: ... this.

\* run-support.h: New. Copied from gpg/t-support.h.

\* gpg/Makefile.am (noinst\_PROGRAMS): Remove them.

\* Makefile.am (noinst\_PROGRAMS): Add them.

(noinst\_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-support.h (passphrase\_cb): Implement write() according to the book to silence compiler warning.

\* gpgsm/t-support.h (passphrase\_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

\* gpg/pgp-import.c: New.

\* gpg/t-support.h (print\_import\_result, nonnull): Factored out from other tools.

\* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

\* gpg/Makefile.am

(./pubring.gpg): Ignore errors in case of already imported keys. Add --no-permission-warning and remove obsolete --allow-secret-key-import.

\* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

\* gpg/t-edit.c (edit\_fnc): Use gpgme\_io\_write.

2009-04-19 Moritz <moritz@gnu.org>

\* gpg/Makefile.am (EXTRA\_DIST): Replaced mkdemodirs with mkdemodirs.in.

(mkdemodirs): New target.

(clean-local): Added command for removing mkdemodirs script.

(./Alpha/Secret.gpg): Added dependency on mkdemodirs.

\* gpg/mkdemodirs: Renamed to ...  
\* gpg/mkdemodirs.in: ... here.  
\* gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>

\* opassuan/t-command.c: Adjust for changed new op\_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

\* gpg/t-keylist.c (main): Check that new fields is\_cardkey and card\_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>

\* opassuan/: New.  
\* opassuan/Makefile.am:  
New.  
\* opassuan/t-command.c: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

\* Makefile.am (INCLUDES): Fix path to include file.  
\* gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

\* gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

\* gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.  
\* gpg/Makefile.am (INCLUDES, LDADD, t\_thread1\_LDADD): Likewise.  
\* Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

\* gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

\* gpg/t-gpgconf.c (dump\_arg): Add new types. Print strings in quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.

\* gpg/Makefile.am (./gpg-agent.conf): Correct pinentry path.

\* gpg/pinentry:

New file.

\* gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf

(./gpg-agent.conf): New target.

(EXTRA\_DIST): Add pinentry.

\* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

\* Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for GNUPGHOME.

\* gpg/Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for GNUPGHOME.

\* gpgsm/Makefile.am (TESTS\_ENVIRONMENT): Use absolute path for GNUPGHOME.

\* gpg/Makefile.am (TESTS): Add t-gpgconf.

t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (show\_auditlog): Check for GPG\_ERR\_ASS\_UNKNOWN\_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

\* gpgsm/t-verify.c (check\_result): Don't exit on error but set a flag.

(main): Consult flag for return value.

(show\_auditlog): New.

(main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

\* t-engine-info.c

(check\_engine\_info): Fix debug output.

\* gpg/Makefile.am (tests\_unix): New variable.

(TESTS): Use it.

\* gpg/t-support.h (passphrase\_cb) [HAVE\_W32\_SYSTEM]: Use WriteFile instead of write.

\* gpg/t-wait.c [HAVE\_W32\_SYSTEM]: Define sleep as \_sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (key\_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

\* gpgsm/t-support.h (init\_gpgme) [W32]: Do not init the locales as the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

\* gpg/t-verify.c (double\_plaintext\_sig): New.  
(main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

\* gpg/t-keylist.c (main): Changed for that secondary keys now have a fingerprint.

\*

gpg/t-keylist-sig.c (main): Ditto.

\* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

\* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to Whisky.

\* gpg/t-keylist.c: Reordered list to match new demo keyring. Add arg for number of subkeys and for extra checking function.

(main): Enhanced a few error outputs. Changed subkey counting. Call extra checking function.

(check\_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (main): Allow for an email address as a second uid.

\* gpg/t-sig-notation.c: Change critical notation to something

GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (EXTRA\_DIST): Remove gpg.conf.
- (DISTCLEANFILES): Add gpg.conf.
- (all-local): Add gpg.conf.
- (./gpg.conf): New target.
- \* gpg/gpg.conf: Remove file.
  
- \* gpg/Makefile.am (EXTRA\_DIST): Add gpg.conf.
  
- \* gpg/Makefile.am (TESTS): Add t-sig-notation.
- \* gpg/t-sig-notation.c
- (check\_result): New file.
- \* gpg/t-verify.c (check\_result): Also check the length of the notation data.
- \* gpg/gpg.conf: New file.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (TESTS): Add t-filename.
- \* gpg/t-filename.c: New file.

2005-09-23 Werner Koch <wk@g10code.com>

- \* gpg/t-support.h (init\_gpgme) [W32]: Don't use LC\_MESSAGES.
  
- \* gpg/t-encrypt-large.c: New test.
- \* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (TESTS): Add t-wait.
- \* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/mkdemodirs: Add copyright notice.
  
- \* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c, gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c, gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c, gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c, gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c, gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c, gpg/t-eventloop.c, gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c,

gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c,  
gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c,  
gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c,  
t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and  
KEY\_LENGTH.

(main): Use them.

\* gpgsm/t-import.c (check\_result): New argument total\_stat.

(main): Pass this argument. Reduce number of total considered  
keys to 1 for the second test.

2004-04-05 Werner Koch <wk@gnupg.org>

\* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

\* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

\* gpgsm/t-import.c (check\_result): gpgsm does now  
return info in  
the result->imports; adjust for that.

\* gpgsm/Makefile.am (TESTS\_ENVIRONMENT): Reset the GPG\_AGENT\_INFO.

Include config.h at the top of each C source. This is required  
due to LFS support.

\* gpg/t-keylist-sig.c (main): s/class/sig\_class/.

\* gpg/t-signers.c (check\_result): Ditto.

\* gpg/t-sign.c (check\_result): Ditto.

\* gpg/t-encrypt-sign.c (check\_result): Ditto.

\* gpgsm/t-sign.c (check\_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

\* gpg/t-keylist-sig.c (main): Temporary disabled one test due top  
gpg 1.3.4 problems.

\* gpg/t-import.c (check\_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

- \* gpg/t-support.h (DIM): Added.
- \* gpg/t-verify.c (check\_result): Rewrote test for notations because the order of notations is not guaranteed.
- \* gpgsm/t-support.h (fail\_if\_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-eventloop.c: Include <sys/types.h> for old systems.
- \* gpgsm/Makefile.am (DISTCLEANFILES): Add random\_seed.
- \* gpg/t-thread1.c (thread\_one): Do not call initialize\_gpgme. Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-thread1.c (main): Call init\_gpgme here. (initialize\_gpgme): Function removed.
- \* gpg/t-thread1.c: New file.
- \* gpg/Makefile.am (TESTS): Add t-thread1.c. (t\_thread1\_LDADD): New variable. (LDADD): Remove GPG Error lib.
- \* gpgsm/Makefile.am (LDADD): Likewise.
- \* gpg/t-import.c (main): Likewise.
- \* gpg/t-keylist-sig.c (main): Likewise.
- \* gpg/t-keylist.c (main): Likewise.
- \* gpg/t-sign.c (main): Likewise.
- \* gpg/t-signers.c (main): Likewise.
- \* gpg/t-trustlist.c (main): Likewise.
- \* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>. (init\_gpgme): New function.
- \* gpg/t-support.h: Likewise.
- \* gpgsm/t-verify.c (main): Call init\_gpgme.
- \* gpgsm/t-decrypt.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.
- \* gpgsm/t-export.c (main): Likewise.
- \* gpgsm/t-genkey.c (main): Likewise.
- \* gpgsm/t-import.c (main): Likewise.
- \* gpgsm/t-keylist.c (main): Likewise.



- \* gpgsm/t-sign.c (main): Likewise.
- \* gpg/t-verify.c (main): Call init\_gpgme.
- \* gpg/t-decrypt-verify.c (main): Likewise.
- \* gpg/t-decrypt.c (main): Likewise.
- \* gpg/t-edit.c (main): Likewise.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpg/t-encrypt-sym.c (main): Likewise.
- \* gpg/t-encrypt.c (main): Likewise.
- \* gpg/t-eventloop.c (main): Likewise.
- \* gpg/t-export.c (main): Likewise.
- \* gpg/t-genkey.c (main): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-sign.c (check\_result): Change output format for signature class to unsigned int.
- \* gpg/t-signers.c (check\_result): Likewise.
- \* gpg/t-encrypt-sign.c (check\_result): Likewise.
- \* gpgsm/t-sign.c (check\_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-verify.c (check\_result): Change type of SUMMARY to unsigned int.
- \* gpg/t-decrypt-verify.c (check\_verify\_result): Likewise.
- \* gpg/t-keylist-sig.c (keys): Change type of member CLASS to unsigned int.
- \* t-data.c (read\_cb): Change type of AMOUNT to unsigned int.
- \* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.
- \* gpg/Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.
- \* gpgsm/Makefile.am (AM\_CPPFLAGS): New variable.  
(LDADD): Add @GPG\_ERROR\_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

- \* gpg/Makefile.am (noinst\_HEADERS): New variable.
- \* gpg/t-support.h: New file.
- \* gpgsm/Makefile.am (noinst\_HEADERS): New variable.
- \* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
- \* gpg/t-encrypt.c (main): Likewise.
- \* gpg/t-eventloop.c (main): Likewise.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpgsm/t-export.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus  
Brinkmann <marcus@g10code.de>

- \* gpg/t-eventloop.c (main): Rewrite recipient management.
- \* gpg/t-encrypt-sign.c (main): Likewise.
- \* gpg/t-encrypt.c (main): Likewise.
- \* gpg/t-export.c (main): Likewise.
- \* gpgsm/t-encrypt.c (main): Likewise.
- \* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after t-import.
- \* gpg/t-edit.c (edit\_fnc): Fix primary UID for keylisting tests.
- \* gpg/t-keylist.c: Change order of user IDs.
- \* gpg/t-keylist-sig.c: Likewise.
- \* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c: Remove TEST\_OUT\_CB.  
(main): Likewise.
- \* gpg/t-trustlist.c (main): Access ITEM directly.
- \* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c, t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.  
(passphrase\_cb): Rewritten.
- \* t-edit.c (edit\_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

- \*
- gpg/t-keylist-sig.c (main): Remove timestamp check.
- \* gpgsm/t-keylist.c: Add check for timestamp.
- \* gpg/Makefile.am (TESTS): Add t-keylist-sig.

\* gpg/t-keylist-sig.c: New file.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-eventloop.c (main): Do not call print\_op\_info.  
(print\_op\_info): Function removed.

\* gpg/t-keylist.c: Rewritten.

\* gpgsm/t-keylist.c (main): Rewritten.

\* gpg/t-edit.c (main): Do not use gpgme\_key\_get\_as\_xml. Use  
gpgme\_key\_unref instead gpgme\_key\_release.

\* gpg/t-signers.c (main): Use gpgme\_key\_unref instead  
gpgme\_key\_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-trustlist.c: Rewritten.

\* gpg/t-verify.c (main): Rewritten.

\* gpg/t-decrypt-verify.c: Rewritten.

\* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-decrypt.c (main): Rewritten.

\* gpg/t-decrypt.c: Rewritten.

\* gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

\*

gpg/t-encrypt-sign.c (check\_result): Rewritten.

\* gpg/t-sign.c: Rewritten.

\* gpgsm/t-sign.c: Rewritten.

\* gpg/t-encrypt.c: Check for invalid recipients.

\* gpgsm/t-encrypt.c: Likewise.

\* gpg/t-import.c (check\_result): Really use FPR.

\* gpgsm/t-import.c (check\_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-import.c: Rewritten.

\* gpgsm/t-genkey.c: Rewritten.

\* gpgsm/Makefile.am (noinst\_PROGRAMS): Add t-genkey.  
\* gpg/t-genkey.c: Include <stdlib.h>.  
(main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-decrypt.c (passphrase\_cb): Fix to new prototype.  
\* gpg/t-decrypt-verify.c (passphrase\_cb): Likewise.  
\* gpg/t-edit.c (passphrase\_cb): Likewise.  
\* gpg/t-encrypt-sign.c (passphrase\_cb): Likewise.  
\* gpg/t-encrypt-sym.c (passphrase\_cb): Likewise.  
\* gpg/t-sign.c (passphrase\_cb): Likewise.  
\*  
gpg/t-signers.c (passphrase\_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

\* t-engine-info.c: Use file\_name instead path throughout.  
  
\* Makefile.am (TESTS): Add t-engine-info.  
\* t-engine-info.c: New file.  
\* gpg/t-encrypt.c (main): Don't print engine info.  
\* gpg/t-eventloop.c (main): Likewise.  
\* gpg/t-encrypt-sign.c (main): Likewise.  
\* gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (main): Adjust caller of gpgme\_op\_verify.  
\* gpg/t-verify.c (main): Likewise.  
\* gpg/t-decrypt-verify.c (main): Likewise for  
gpgme\_op\_decrypt\_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (./gpgsm.conf): Add a faked system time to  
avoid certification's expiry.  
\* gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-genkey.c (main): Add missing argument to gpgme\_op\_genkey  
invocation.

2002-10-09 Marcus Brinkmann

<marcus@g10code.de>

\* gpg/t-decrypt.c (print\_data): Update to new gpgme\_data\_read interface, and use gpgme\_engine\_check\_version instead of gpgme\_check\_version.

\* gpg/t-decrypt-verify.c (print\_data): Likewise.

\* gpg/t-edit.c (main): Likewise.

\* gpg/t-encrypt.c (print\_data): Likewise.

\* gpg/t-encrypt-sign.c (print\_data): Likewise.

\* gpg/t-encrypt-sym.c (print\_data): Likewise.

\* gpg/t-eventloop.c (print\_data): Likewise.

\* gpg/t-export.c (print\_data): Likewise.

\* gpg/t-sign.c (print\_data): Likewise.

\* gpg/t-signers.c (print\_data): Likewise.

\* gpgsm/t-decrypt.c (print\_data): Likewise.

\* gpgsm/t-encrypt.c (print\_data): Likewise.

\* gpgsm/t-export.c (print\_data): Likewise.

\* gpgsm/t-sign.c (print\_data): Likewise.

\* gpg/t-verify.c (main): Likewise for gpgme\_op\_verify.

\* gpgsm/t-verify.c (main): Likewise for gpgme\_op\_verify.

\* t-data.c (read\_once\_test): Likewise.

(write\_test): Update for new behaviour of data objects.

(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

\*

gpgsm/t-keylist.c (doit): Add arg SECRET.

(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

\* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-keylist.c (main): Test PATTERN for NULL before printing.

Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-edit.c: Also add a test for the expire command (testing the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-edit.c: New file.

\* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-encrypt-sym.c (main): Change type of I to size\_t and rename to LEN.

\* gpg/t-verify.c (main): Likewise. Submitted by Stphane Corttsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-eventloop.c: New file.

\* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>

\*

gpgsm/t-import.c (print\_op\_info): New.  
(main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>

\* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (TESTS): Add t-export.  
gpgsm/t-export.c: New file.

2002-06-20 Werner Koch <wk@gnupg.org>

\* gpgsm/t-sign.c (main): Also test a normal signature.

\* gpg/Makefile (TESTS\_ENVIRONMENT): Set GPG\_AGENT\_INFO empty.

\* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c

\* gpg/t-encrypt-sign.c, gpg/t-decrypt.c

\* gpg/t-decrypt-verify.c (main): Changed the GPG\_AGENT\_INFO check to match the one in ../gpgme/rungpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

\* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

\* gpgsm/t-verify.c (print\_sig\_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>

\* gpgsm/t-encrypt.c (main): Add a simple option parser and allow to specify an encryption key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg. (./secring.gpg): Remove target, and move all rules for this target to ... (./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7 does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-verify.c (validity\_string): New. (print\_sig\_stat): Print expire time and validity. (status\_string): Add new expired stati.

2002-05-03 Werner Koch <wk@gnupg.org>

\* gpg/t-verify.c (validity\_string): New. (print\_sig\_stat): Print expire time and validity. (status\_string): Add new expired stati.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (./trustlist.txt): Put more into this file to prevent use of gpg-agent. (./gpg-agent.conf): Remove target. (all-local): Remove ./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (main): Use gpgme\_engine\_check\_version instead gpgme\_check\_engine. \* gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-encrypt-sym.c: New file. \* gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (CLEANFILES): Remove random\_seed, which is now in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

\* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-verify.c (main): Add a few more sanity checks, and a check for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-encrypt-sign.c: New file.  
\* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

\* gpgsm/Makefile.am (private-keys-v1.d): Don't fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (CLEANFILES): New target.  
(distclean-local): Rename to  
...  
(clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (./private-keys-v1.d/\$(key\_id).key): Fix rule.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-genkey.c: New file (not added to Makefile.am because of gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (key\_id): Update value.  
(all-local): Add .key to keyid filename.  
(./private-keys-v1.d/\$(key\_id)): Renamed to ...  
(./private-keys-v1.d/\$(key\_id).key): ... this.  
(all-local): Add ./gpgsm.conf, ./trustlist.txt.  
(./gpgsm.conf, ./trustlist.txt): New target.  
\* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...  
\* gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>



\* gpg/t-import.c (print\_op\_info): New function.  
(main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-signers.c (passphrase\_cb): Change type of r\_hd to void\*\*.  
\* gpg/t-sign.c (passphrase\_cb):  
Likewise.  
\* gpg/t-decrypt-verify.c (passphrase\_cb): Likewise.  
\* gpg/t-decrypt.c (passphrase\_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by  
Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpg/Makefile.am (EXTRA\_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile.am (EXTRA\_DIST): Add \$(key\_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-keylist.c (check\_two\_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-sign.c: New file.  
\* gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

\* gpgsm/t-decrypt.c: New file.  
\* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Likewise.  
\* gpgsm/Makefile.am (TESTS): Add  
t-decrypt.  
(key\_id): New variable.  
(all-local): New target ./private-keys-v1.d/\$(key\_id) added.  
(./private-keys-v1.d/\$(key\_id)): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/t-verify.c: New file.
- \* gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/Makefile.am (GPG): Set to @GPG\_PATH@.
- (./pubring.gpg): Use \$(GPG) instead gpg.
- (./secring.gpg): Likewise.

- \* gpgsm/t-import.c (main): Remove third test case.
- \* gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.
- (all-local): New target.
- (./pubcerts.kbx): Likewise.
- \* gpgsm/t-encrypt.c: New file.
- \* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/t-keylist.c: New file.
- \* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

- \* gpgsm/cert\_dfn\_pca01.der: New file.
- \* gpgsm/cert\_dfn\_pca15.der: Likewise.
- \* gpgsm/cert\_g10code\_test1.der: Likewise.
- \* gpgsm/t-import.c: Likewise.
- \*
- gpgsm/Makefile.am (EXTRADIST): Add new files.
- (TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

- \* gpg/: New directory.
- \* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c, t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c, t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs. cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc, secdemo.asc, seckey-1.asc): Move to sub directory gpg/.
- \* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and intl/.
- (LDD): Correct relative path to gpgme library.
- (TESTS): Remove t-version and t-data.
- \* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c, gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c,

gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c,  
t-version.c, t-data.c): Include gpgme.h, not "../gpgme/gpgme.h".

- \* Makefile.am: New file.
- \* gpgsm/: New directory.
- \* gpgsm/Makefile.am: New file.

2001-11-16 Marcus  
Brinkmann <marcus@g10code.de>

- \* Makefile.am (TESTS): Add t-decrypt-verify.
- \* t-decrypt-verify.c: New file.
- \* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c: Include stddef.h.
- (read\_once\_test): Change type of READ to size\_t.
- (read\_test): Likewise.
- (write\_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

- \* t-signers.c: New file.
- \* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (TEST\_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (TEST\_ENVIRONMENT): Set environment to \$(srcdir),  
not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* t-data.c (write\_test): New function.
- (main): Invoke write\_test for all rounds except TEST\_OUT\_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

- \* Makefile.am (INCLUDES): Remove spurious duplicate to silence  
automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

\*

t-version.c: New file.  
\* t-data.c: Likewise.  
\* t-data-1.txt: Likewise.  
\* t-data-2.txt: Likewise.  
\* Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

\* t-keylist.c (check\_two\_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

\* t-encrypt.c (print\_op\_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

\* t-sign.c (print\_op\_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

\* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

\* t-verify.c (print\_sig\_stat): Repaled along by unsigned long because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

\* tests/t-verify.c (print\_sig\_stat): Print info about the keys.

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# -\*- mode: org -\*-

#+TITLE: What's New in the GPGME Python Bindings and Documentation

#+AUTHOR: Ben McGinnes

#+LATEX\_COMPILER: xelatex

#+LATEX\_CLASS: article

```
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}
```

\* What's New

```
:PROPERTIES:
:CUSTOM_ID: new-stuff
:END:
```

```
Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en
```

Last time the most obviously new thing was adding the /What's New/ section to the HOWTO. Now it's moving it out of the HOWTO.

\*\* New in GPGME 1130

```
:PROPERTIES:
:CUSTOM_ID: new-stuff-1-13-0
:END:
```

Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [\[\[file:gpgme-python-howto.org\]\]](http://file.gpgme-python-howto.org) [HOWTO] document and into its own file so as to more readily include other documents beyond that HOWTO.
- Moving the preceding, archival, segments into [\[\[file:what-was-new.org\]\]](http://file:what-was-new.org) [another file].
- Added `=gpg.version.versionintlist=` to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows users.
- Bindings enter [\[\[file:maintenance-mode\]\]](http://file:maintenance-mode) [maintenance mode] from January, 2019.
- Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.
- The `import-keys-hkp.py` example script, which uses the `=hkp4py=` module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some

repetition if a key includes a user ID matching the hexadecimal value of a key ID.

000

\*H

010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 \*H  
certify@pca.dfn.de0

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011230180000Z010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1+0)U"DFN Server Certification Authority1!0 \*H  
certify@pca.dfn.de0"0

\*H

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W`r;wXu)QYHm1t]4?[-.B(iw6G01N>[mQSwC'muw~E'l-M

+<[A|F)F%

ZiRaW=OC,,meKW@J-\*<,L}:Bnm-kv

EYBmu tt[-%,R+n0j0U00U0U{upz\*D\

v0Ux0v09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfnpca.crx09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfn  
pca.crl0 `HB0) `HBhttps://mystic.pca.dfn.de/0A `HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html0 `HB

This certificate was issued by the DFN-PCA, the Top  
Level Certification Authority of the German Research  
Network (Deutsches Forschungsnetz, DFN).

The key owner's identity was authenticated in  
accordance with the DFN World Wide Web Policy, v1.00! `HBcgi/check-rev.cgi?0

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Version 2.1, February 1999

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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a)

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1543830060

##Sketch 1 2

document()

layout('A4',1)

fp((0,0,0))

ft(1)

Fn('Helvetica-Bold')

Fs(18)

dstyle('Text')

fp((0,1,0.498))

ft(1)

lp((0,0,0))

lw(0.283465)

lc(1)  
lj(0)  
ld()  
la1()  
la2()  
dstyle('Application Box')  
layer('Layer 1',1,1,0,0,(0,0,0))  
lw(1)  
r(0,0,0,0,688.145,44.1554)  
lw(1)  
r(0,0,0,0,682.363,85.0359)  
lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(605.383,329.758,0)  
bs(605.383,230.546,0)  
lw(1)  
r(0,0,0,0,807.414,53.6148)  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(480.134,240.945,0)  
bs(480.358,325.277,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(474.803,432.284,0)  
bs(475.334,360.243,0)  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(354.331,432.284,0)  
bs(352.806,361.417,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
b()  
bs(212.598,432.284,0)  
bs(212.598,361.417,0)  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5968,0,0,-56.6929,191.608,488.976,0.0603744,0.151107)  
lw(1)  
r(0,0,0,0,88.5492,390.805)

lp((0.392,0.584,0.929))  
lw(4.25197)  
b()  
bs(226.772,524.409,0)  
bs(226.772,488.976,0)  
lp((0.392,0.584,0.929))  
lw(4.25)  
b()  
bs(403.937,528.718,0)  
bs(403.937,488.976,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1,  
1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(240.945,432.284,0)  
bs(240.574,394.994,0)  
bs(595.276,396.85,0)  
bs(595.276,361.417,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(333.071,432.284,0)  
bs(333.07,425.196,0)  
bs(333.07,382.677,0)  
bs(240.945,382.677,0)  
bs(240.945,361.417,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.347,318.897,354.331,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica-Bold')  
Fs(10)  
txt('GPG',(1,0,0,0.905764,344.004,335.686))  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,446.763,354.33,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)

Fn('Helvetica')  
 Fs(14)  
 style('Text')  
 txt('GpgConf',(0.552654,0,0,0.500564,481.802,340.184),1,1)  
 G\_()  
 G()  
 fp((0.999,1,0.4))  
 lw(0.283465)  
 r(70.5589,0,0,-28.347,191.338,354.331,0.0670228,0.151107)  
 fp((0,0,0))  
 le()  
 lw(1)  
 Fn('Helvetica')  
 Fs(14)  
 style('Text')  
 txt('GpgSM',(0.552654,0,0,0.500574,226.376,340.185),1,1)  
 G\_()  
 lp((0.392,0.584,0.929))  
 lw(4.25)  
 b()  
 bs(347.244,325.984,0)  
 bs(347.244,325.984,0)  
 bs(347.244,255.118,0)  
 bs(304.724,255.118,0)  
 bs(304.724,226.771,0)  
 lp((0.392,0.584,0.929))  
 lw(4.25)  
 b()  
 bs(233.858,325.984,0)  
 bs(233.858,255.118,0)  
 bs(276.378,255.118,0)  
 bs(276.378,226.771,0)  
 fp((0,0,0))  
 le()  
 lw(1)  
 Fn('Palatino-Roman')  
 txt('2008-07-17',(0.608301,0,0,0.608301,708.661,65.8308))  
 lw(1)  
 r(0,0,0,0,750.427,153.265)  
 lp((0.392,0.584,0.929))  
 lw(3.25)  
 ld((1,  
 1))  
 la2([( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0) ], 1))  
 b()  
 bs(219.685,325.984,0)  
 bs(219.685,198.425,0)  
 bs(219.685,162.992,0)

G()  
fp((1,1,1))  
lw(0.283465)  
r(113.386,0,0,-42.5196,35.4333,162.992,0.0670228,0.151107)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('LDAP  
Server',(0.552654,0,0,0.552654,92.1261,148.819),1,1)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('(CRLs, Certificates)',(0.552654,0,0,0.552654,92.1261,134.646),1,1)  
G\_  
G()  
fp((1,1,1))  
lw(0.283465)  
r(113.386,0,0,-42.5196,35.4331,99.2125,0.0670228,0.151107)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('HTTP Server',(0.552654,0,0,0.552654,92.1259,85.0394),1,1)  
fp((0,0,0))  
lw(0.283465)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('(CRLs)',(0.552654,0,0,0.552654,92.1259,70.8662),1,1)  
G\_  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.866,0,0,-31.2962,191.338,158.855,0.0670228,0.151107)  
fp((0,0,0))

le()  
 lw(1)  
 Fn('Helvetica')  
 Fs(14)  
 style('Text')  
 txt('DirMgr',(0.552654,0,0,0.552654,224.02,142.978),1,1)  
 G\_  
 lw(2)  
 ld((1, 1))  
 la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
 b()  
 bs(219.15,126.18,0)  
 bs(219.685,77.9528,0)  
 bs(155.906,77.9528,0)  
 lp((0.392,0.584,0.929))  
 lw(3)  
 b()  
 bs(233.858,127.559,0)  
 bs(233.858,99.2125,0)  
 bs(276.378,99.2125,0)  
 bs(276.378,85.0393,0)  
 lp((0.392,0.584,0.929))  
 lw(3)  
 b()  
 bs(248.031,127.559,0)  
 bs(248.031,113.386,0)  
 bs(375.59,113.386,0)  
 bs(375.59,85.0393,0)  
 G()  
 fp((1,0.647,0.31))  
 lw(0.283465)  
 r(99.2124,0,0,-28.3464,333.07,85.0393,0.0670228,0.151107)  
 fp((0,0,0))  
 le()  
 lw(1)  
 Fn('Helvetica')  
 Fs(14)  
 style('Text')  
 Fn('Helvetica-Bold')  
 Fs(18)  
 txt('Certificate  
 Cache',(0.552654,0,0,0.552654,382.606,69.8548),1,1)  
 fp((1,0.647,0.31))  
 lw(0.283465)  
 r(70.5589,0,0,-28.3464,248.031,85.0393,0.0670228,0.151107)  
 fp((0,0,0))  
 le()  
 lw(1)

Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('CRL Cache',(0.552654,0,0,0.552654,284.147,70.6936),1,1)  
G\_()  
lw(1)  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(503.149,240.945,0)  
bs(503.149,283.464,0)  
bs(588.189,283.465,0)  
bs(588.189,325.984,0)  
lw(1)  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(503.149,283.464,0)  
bs(503.149,283.464,0)  
bs(361.417,283.464,0)  
bs(361.417,325.984,0)  
lw(1)  
la2((( (-4.0,  
3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(361.417,283.464,0)  
bs(205.512,283.465,0)  
bs(205.512,325.984,0)  
lw(1)  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(574.015,85.0393,0)  
bs(574.015,141.732,0)  
bs(262.204,141.732,0)  
lw(1)  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(602.361,85.0393,0)  
bs(602.361,170.079,0)  
bs(439.37,170.079,0)  
bs(439.37,311.811,0)  
bs(460.629,311.811,0)  
bs(460.629,325.984,0)  
lw(1)  
ld((5, 1))  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(389.763,240.945,0)  
bs(389.763,269.291,0)  
bs(290.551,269.291,0)

bs(290.551,340.157,0)  
bs(262.204,340.157,0)  
lw(1)  
ld((5, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(389.763,269.291,0)  
bs(559.843,269.291,0)  
bs(559.843,333.071,0)  
bs(574.016,333.071,0)  
lw(1)  
ld((5, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(488.976,85.0393,0)  
bs(488.976,127.559,0)  
bs(389.763,127.559,0)  
bs(389.763,212.598,0)  
lw(2)  
ld((1,  
1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(205.512,127.559,0)  
bs(205.512,113.386,0)  
bs(170.079,113.386,0)  
bs(170.079,141.732,0)  
bs(155.906,141.732,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( -4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))  
b()  
bs(622.961,356.76,0)  
bs(622.961,518.503,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3459,573.199,354.33,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('GpgAgent',(0.552654,0,0,0.500554,608.238,340.185),1,1)  
G\_()  
lp((0.392,0.584,0.929))



lw(4.25)  
b()  
bs(721.712,467.717,0)  
bs(721.712,297.838,0)  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-28.3464,686.278,297.637,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('SCdaemon',(0.552654,0,0,0.500564,721.316,283.492),1,1)  
G\_()  
fp((1,0.647,0.31))  
lw(0.283465)  
lj(1)  
r(86.162,0,0,-117.493,679.192,566.929,0.181818,0.333333)  
G()  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Smartcard',(0.552654,0,0,0.552654,698.127,491.036))  
fp((0.999,1,0.4))  
lw(0.283465)  
r(70.5589,0,0,-31.2962,686.279,557.593,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('Card  
Reader',(0.552654,0,0,0.552654,721.318,541.975),1,1)  
G\_()  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(73.6353,0,0,-41.2944,587.066,565.703,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)

```

style('Text')
txt('PIN Entry',(0.57675,0,0,0.729211,623.632,545.097),1,1)
G_()
Ip((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(((-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(643.758,340.157,0)
bs(643.758,340.157,0)
bs(707.539,340.158,0)
bs(707.539,304.724,0)
lw(1)
la2(((-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(574.016,283.465,0)
bs(587.066,283.464,0)
bs(686.278,283.464,0)
G()
Ip((0.392,0.584,0.929))
lw(4.25197)
b()
bs(98.9053,325.985,0)
bs(98.9053,240.945,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,63.7795,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('WatchGnuPG',(0.552654,0,0,0.552654,98.8185,338.713),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.1194,63.7795,240.718,0.0670228,0.168178)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Log

```

Socket',(0.552654,0,0,0.552654,98.8175,225.1),1,1)  
G\_()  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,446.457,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Config Files',(0.552654,0,0,0.552654,485.621,226.772),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,545.669,85.0394,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Config Files',(0.552654,0,0,0.552654,584.834,70.8662),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(84.6546,0,0,-27.3609,347.245,239.959,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Help  
Files',(0.552654,0,0,0.552654,388.252,224.705),1,1)  
G\_()  
G()  
fp((1,0.647,0.31))

lw(0.283465)  
r(84.6546,0,0,-27.3609,446.457,85.0394,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Help Files',(0.552654,0,0,0.552654,487.464,69.7854),1,1)  
G\_  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(85.0392,0,0,-28.3464,248.032,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Keybox Files',(0.552654,0,0,0.552654,289.59,226.322),1,1)  
G\_  
G()  
fp((1,0.647,0.31))  
lw(0.283465)  
r(70.866,0,0,-28.3464,574.016,240.945,0.0670228,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(18)  
txt('Private Keys',(0.552654,0,0,0.552654,609.449,226.772),1,1)  
G\_  
G()  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')

Fs(24)  
txt('Scute',(0.552654,0,0,0.599958,224.978,465.775),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Times-Roman')  
Fs(10)  
txt('(pkcs#11)',(1,0,0,1.08559,206.081,445.011))  
G\_()  
G()  
fp((0.999,1,0.4))  
lw(0.283465)  
r(198.827,0,0,-56.6929,304.322,488.976,0.0603744,0.151107)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
Fn('Helvetica-Bold')  
Fs(36)  
txt('GPGME  
Library',(0.552654,0,0,0.552654,404.952,457.853),1,1)  
G\_()  
G()  
lw(1)  
style('Application Box')  
r(197.598,0,0,-42.5187,304.724,566.928,0.0152672,0.0677968)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
txt('GPGME aware Application',(0.98062,0,0,0.937018,334.892,540.985))  
G\_()  
G()  
lw(1)  
style('Application Box')  
r(127.829,0,0,-41.7496,162.992,566.159,0.0152672,0.0677968)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
txt('Legacy Application',(174.688,540.01))  
G\_()  
G()  
G()  
lp((0.392,0.584,0.929))  
lw(4.25197)

b()  
bs(749.296,162.296,0)  
bs(705.89,162.296,0)  
lw(3.25)  
ld((1, 1))  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0,  
-3.0), (-4.0, 3.0)], 1))  
b()  
bs(705.89,100.083,0)  
bs(744.472,100.083,0)  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(705.89,131.189,0)  
bs(744.472,131.189,0)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('execute/access',(0.31891,0,0,0.280771,726.951,87.3768),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('closely linked',(0.31891,0,0,0.280771,724.715,149.589),1,1)  
fp((0,0,0))  
le()  
lw(1)  
Fn('Helvetica')  
Fs(14)  
style('Text')  
txt('Assuan protocol',(0.31891,0,0,0.280771,728.535,118.483),1,1)  
G\_()  
lw(1)  
r(56.6929,0,0,-92.126,701.575,170.079)  
G\_()  
lp((0.392,0.584,0.929))  
lw(3.25)  
ld((1, 1))  
la2((( (-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))  
b()  
bs(248.031,325.984,0)

```

bs(248.031,297.638,0)
bs(538.583,297.638,0)
bs(538.583,340.157,0)
bs(566.929,340.157,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(((-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)), 1))
b()
bs(375.591,325.984,0)
bs(375.591,304.724,0)
bs(531.496,304.724,0)
bs(531.496,347.244,0)
bs(566.929,347.244,0)
guidelayer('Guide
 Lines',1,0,0,1,(0,0,1))
grid((0,0,7.08661,7.08661),1,(0,0,1),'Grid')
Just GNU it!
Just GNU it!
Just GNU it!
-*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltextra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

```

```

* GPGME Python Bindings
:PROPERTIES:
:CUSTOM_ID: top
:END:

```

```

** Contents
:PROPERTIES:
:CUSTOM_ID: contents
:END:

```

```

- [[file:short-history]] [A short history of the project]
- [[file:what-is-new]] [What's New]
- [[file:maintenance-mode]] [Maintenance Mode] (from January, 2019)
- [[file:what-was-new]] [What Was New]

```

- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]

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Version 2, June 1991

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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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```
\input texinfo @c -*- texinfo -*-
@c %**start of header
@setfilename short-history.info
@settitle A Short History of the GPGME bindings for Python
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title A Short History of the GPGME bindings for Python
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top A Short History of the GPGME bindings for Python
@end ifnottex

@menu
* Overview::
* Relics of the past::

@detailmenu
```

--- The Detailed Node Listing ---

## Overview

- \* In the beginning::
- \* Keeping the flame alive::
- \* Passing the torch::
- \* Coming full circle::

## Relics of the past

- \* The Annoyances of Git::
- \* The Perils of PyPI::

## The Perils of PyPI

- \* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
- \* PyME 090 - Python support for GPGME GnuPG cryptography library::

@end detailmenu

@end menu

@node Overview

@chapter Overview

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}

@item Version:

@tab

0.0.1

@item GPGME Version:

@tab 1.13.0

@item Author:

@tab Ben McGinnes <ben@gnupg.org>

@item Author GPG Key:

@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D

@item Language:

@tab Australian English, British English

@item xml:lang:

@tab en-AU, en-GB, en

@end multitable

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

@menu

- \* In the beginning::
- \* Keeping the flame alive::



\* Passing the torch::

\* Coming full circle::

@end menu

@node In the beginning

@section In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG. @footnote{In all likelihood this would have been Python 2.2 or possibly Python 2.3.} Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

@node Keeping

the flame alive

@section Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

@node Passing the torch

@section Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he became the new maintainer for PyME, releasing version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

@node Coming full circle

@section Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of @samp{pyme3}.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many

minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately reflect its status as a component of GPGME. The @samp{pyme3} module was renamed to @samp{gpg} and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

@node Relics of the past  
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

@menu

\*

The Annoyances of Git::

\* The Perils of PyPI::

@end menu

@node The Annoyances of Git  
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/} directory, along with a copy of the entire git log up to that point as a separate file within the @samp{lang/python/docs/} directory.@footnote{The entire PyME git log and other preceding VCS logs are

located in the @samp{gpgme/lang/python/docs/old-commits.log} file.}

As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

@node The Perils of PyPI  
@section The Perils of PyPI

The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never added to PyPI while the focus remained on development and testing

during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from `@samp{pyme3}` to `@samp{gpg}`, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI  
which might turn up in a search  
for this module or a sample of its content:

```
@enumerate
@item
gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate
```

```
@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu
```

```
@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@subsection GPG 180 - Python bindings for GPGME GnuPG cryptography library
```

This is the most recent version to reach PyPI and is the version of the official Python bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and `@emph{only}` 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along with the Python bindings included with that package.

```
@node PyME 090 - Python support for GPGME GnuPG cryptography library
@subsection PyME 090 - Python support for GPGME GnuPG cryptography library
```

This is the last release of the PyME bindings maintained by Martin

Albrecht and is only compatible with Python 2, it will not work with Python 3. This is the version of the software from which the port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous points of similarity, but also significant differences. It is likely that the more recent official bindings will feel "more pythonic."

For those using Python 2, there is essentially no harm in using this module, but it may lack a number of more recent features added to GPGME.

@bye  
commit 2145348ec54c6027f2ea20f695de0277e2871405  
Merge: 348ba88 2036f1a  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 03:04:19 2015 +1000

Merge pull request #4 from Hasimir/master

history

commit 2036f1a0a670a0561993e195c458059220b36114  
Merge: dbabf0c 348ba88  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:57:44 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34faa9c  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:52:23 2015 +1000

Added a short history

- \* A (very) brief summary of the project's history since 2002.
- \* Deals with why the commit log in the GPGME repo does not include the history of PyME.
- \* Mentions that intact git repos will be maintained, but not where they are (one will be on github, another will be in a user directory on playfair.gnupg.org).

docs/Short\_History.rst | 57 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
1 file  
changed, 57 insertions(+)

commit 348ba883424778c711c04ae9b66035ccdb36eb8c

Merge: 127d0a5 7c37a27  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:21:34 2015 +1000

Merge pull request #3 from Hasimir/master

Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612  
Merge: f692cff 127d0a5  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692cff50a89c2c61acdbd3d7dd60f5ce3cd15af  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:09:44 2015 +1000

TODO update

\* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 +++  
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 02:00:44 2015 +1000

Version bump

\* Bumped version number to 0.9.1 to keep it somewhat in line with the existing

PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).

\* Updated the author and copyright information to reflect the two current authors (Martin and I).

\* Replaced Igor's contact details with mine.

\* Replaced project home page with the GnuPG one.

pyme/version.py | 16 ++++++++-----  
1 file changed, 9 insertions(+), 7 deletions(-)

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 01:48:01 2015 +1000

README preparation.

\* Changes in preparation for impending move of code to the GnuPG git server as a part of GPGME.

README.rst | 14 ++++++-----  
1 file changed, 7 insertions(+), 7 deletions(-)

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17  
Author: Ben McGinnes <ben@adversary.org>  
Date: Wed May 6 01:43:53 2015 +1000

TODO moved to docs

\* As it says.

TODO.rst | 25 -----  
docs/TODO.rst | 25 ++++++  
2 files changed, 25 insertions(+), 25 deletions(-)

commit f968c777472f01f308f6e57eac1740bf5c76c205  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 16:52:13 2015 +1000

Started another TODO file.

TODO.rst | 25 ++++++  
1 file changed, 25 insertions(+)

commit 127d0a56fa9f7ad1d4fb39d0b529b890a8d67365  
Merge: db72dea 44837f6  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 14:59:44 2015 +1000

Merge pull request #2 from Hasimir/master

Minor editing.

commit 44837f6e50fc539c86aef1f75a6a3538b02029ea  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sun May 3 14:56:55 2015 +1000

Minor editing.

\* Fixed another URL.  
\* Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 ++--

1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bc6a66a88d9213af

Merge: db34286 48eb185

Author:

Ben McGinnes <ben@adversary.org>

Date: Sun May 3 14:26:11 2015 +1000

Merge pull request #1 from Hasimir/master

Links

commit 48eb1856cb0739cc9f0b9084da9d965e1fc7fddd

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 14:22:30 2015 +1000

Links

- \* Fixed URLs for authors.
- \* Updated my entry to point to github location.
- \*\* I strongly suspect the result of this work will be concurrent projects, so preparing for that eventuality with this repo.

README.rst | 8 ++++----

1 file changed, 4 insertions(+), 4 deletions(-)

commit db3428659783f30b9a76204403daedf9fc4cf7cf

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 11:29:00 2015 +1000

Explicit over Implicit ...

... isn't just for code.

- \* Removed the 2to3 working directory and its contents.
- \* Made the README.rst file a little more clear that this branch is for Python 3 (set Python 3.2 as a fairly arbitrary requirement for the moment, but will probably raise this to 3.3).

2to3/2to3-output-remaining.log | 60 ---

2to3/2to3-output-setup.log | 35 --

2to3/2to3-output.log | 950 -----

README.rst | 10 +-

4 files changed, 7 insertions(+), 1048 deletions(-)

commit 3edf07a4ba8a86af3a33246234d6e133074862af

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 11:19:41 2015 +1000

Added authors.

\* In alphabetical order.

\* Mine will need updating once Martin and I have decided what to do regarding the two main branches.

README.rst | 12 ++++++

1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 10:23:00 2015 +1000

Docs and other things.

\* Now able to import pyme.core without error, indicates port process is successful.

\* Code is *not* compatible with the Python 2 version.

\* Will need to consider making this a parallel project with the master

branch.

\* Got rid of the .org TODO file.

\* Changed the README to use the reST file extension since it's full of reST anyway.

2to3/TODO.org | 5 ----

README.rst | 32 ++++++

README.txt | 32 -----

3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdcce1de6f7856921b5431044c62c6f015

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 10:18:40 2015 +1000

Fixed another implicit import by making it explicit. Hopefully this is the last one.

pyme/util.py | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

commit 2b52b46ccda3e7abcc50eed0745062259d698661

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 10:16:01 2015 +1000

Fixed another implicit import by making it explicit.



pyme/errors.py | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

commit 409c8fd565e21f23cd41daaeffc867e6d23a0863

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 10:08:22

2015 +1000

Bytes vs. Unicode

\* Trying PyBytes instead of PyUnicode.

gpgme.i | 14 ++++++-----

helpers.c | 8 +++++---

2 files changed, 11 insertions(+), 11 deletions(-)

commit d8164aa2ae98bf8c807c16e2d9be12c5fba7cfd

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 09:22:58 2015 +1000

String to Unicode

\* Replaced all instances of PyString with PyUnicode (and hoping there's no byte data in there).

gpgme.i | 14 ++++++-----

helpers.c | 8 +++++---

2 files changed, 11 insertions(+), 11 deletions(-)

commit bd99b7865656e559b17c419c6b64b412a22c6c44

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 09:17:06 2015 +1000

PyInt\_AsLong

\* Replaced all instances of PyInt with PyLong, as per C API docs.

gpgme.i | 4 +--

helpers.c | 8 +++++---

2 files changed, 6 insertions(+), 6 deletions(-)

commit 3c91e2ccf8ca788b51e3308e292c6b64888fdb15

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:59:36 2015 +1000

Import correction

\* Once pygpgme.py is generated and moved, it will be in the right directory for the explicit "from . import pygpgme" to be correct.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:38:29 2015 +1000

The -py3 flag.

Makefile | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9c20f75d1348a1d25938

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:01:42 2015 +1000

Fixed indentation - 4.

pyme/core.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 05:00:16 2015 +1000

Fixed indentation - 3.

pyme/core.py | 5 +++--  
1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7

Author: Ben McGinnes <ben@adversary.org>

Date: Sun

May 3 04:53:21 2015 +1000

Pet Peeve

```
def pet_peeve(self):
 peeve = print("people who don't press return after a colon!")
```

FFS!

pyme/core.py | 5 +++--  
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:47:54 2015 +1000

Fixed indentation - 2.

pyme/core.py | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:46:01 2015 +1000

Fixed indentation.

pyme/core.py | 4 ++--

1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bcd9b0283c7d8e022e8972f06f9f8

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:43:49 2015 +1000

Replaced all tabs with 4 spaces.

pyme/core.py | 18 ++++++++-----

1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94ce1e11b8cdb833a9064527187330

Author: Ben McGinnes <ben@adversary.org>

Date:

Sun May 3 04:39:07 2015 +1000

SWIG flags in the wrong place.

Makefile | 4 ++--

1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:35:09 2015 +1000

Fixed subprocess call for swig (again).

setup.py | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcda53127b99b6cc8a6c7c4a99f20

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 04:32:40 2015 +1000

Fixed subprocess call for swig.

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4c975f466ceb39835db7007df36fb2

Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 03:51:48 2015 +1000

Linking swig to py3

\* Changed the swig invocations to run with the -python -py3 flags explicitly.

Makefile | 4 +++  
setup.py | 2 +-  
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6ddc8617a642185eea1f24ff791a

Author:

Ben McGinnes <ben@adversary.org>

Date: Sat May 2 11:12:00 2015 +1000

String fun

\* streamlined confdata details, including decoding strom binary to string.

setup.py | 4 +---  
1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:46:59 2015 +1000

Open File

\* Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py | 2 +-  
examples/pygpa.py | 6 +++---  
gpgme-h-clean.py | 2 +-  
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:36:15 2015 +1000

print() fix

\* Makefile includes a python print, changed from statement to function.

Makefile | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 406f7f2567b701502186fe0a325dc2a3491ff7f8

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:28:42

2015 +1000

Updated Makefile

\* set make to use python3 instead.

\* This will mean a successful port may need to be maintained separately from the original python2 code instead of merged, but ought to be able to share most things. So maybe merge with separated make files or a pre-make script to set python2 or python3 prior to building ... decide later, after it works.

Makefile | 6 +++---  
1 file changed, 3 insertions(+), 3 deletions(-)

commit 90b3efa5b193d37e08dc9b4ee766ba9ebc9412af

Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 10:15:20 2015 +1000

Env and a little license issue

\* Updated all the /usr/bin/env paths to point to python3.

\* Also fixed the hard coded /usr/bin/python paths.

\* Updated part of setup.py which gave the impression this package was only licensed under the GPL (it's actually licensed under the LGPL as well, essentially the same dual licensing as the GPGME library).

examples/PyGtkGpgKeys.py

| 2 +-  
examples/delkey.py | 2 +-  
examples/encrypt-to-all.py | 2 +-  
examples/exportimport.py | 2 +-  
examples/genkey.py | 2 +-  
examples/inter-edit.py | 2 +-  
examples/pygpa.py | 2 +-  
examples/sign.py | 2 +-  
examples/signverify.py | 2 +-  
examples/simple.py | 2 +-  
examples/t-edit.py | 2 +-  
examples/PyGtkGpgKeys.py

examples/testCMSgetkey.py | 2 +-  
examples/verifydetails.py | 2 +-  
gpgme-h-clean.py | 2 +-  
setup.py | 4 +++  
15 files changed, 16 insertions(+), 16 deletions(-)

commit 1a4b55dbccd2774344352e579130bf494bc5fa4b  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sat May 2 08:50:54 2015 +1000

Removed extraneous files.

\* The two .bak files.

pyme/errors.py.bak | 46 -----  
setup.py.bak | 116 -----  
2 files changed, 162 deletions(-)

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de  
Author: Ben McGinnes <ben@adversary.org>  
Date:  
Sat May 2 08:19:37 2015 +1000

Added TODO.org

\* TODO list in Emacs org-mode.  
\* Will eventually be removed along with this entire directory when the porting process is complete.

2to3/TODO.org | 5 +++++  
1 file changed, 5 insertions(+)

commit 1548bf201059638675c5387c6f124d4b703363a9  
Author: Ben McGinnes <ben@adversary.org>  
Date: Sat May 2 07:58:40 2015 +1000

2to3 conversion of remaining files

\* Ran the extended version against all the unmodified python files.  
\* Only pyme/errors.py required additional work.

2to3/2to3-output-remaining.log | 60 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
pyme/errors.py | 2 +-  
pyme/errors.py.bak | 46 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4  
Author: Ben McGinnes <ben@adversary.org>

Date: Sat May 2 07:50:39 2015 +1000

2to3 conversion of setup.py

- \* Ran extended 2to3 command to produce python 3 code for setup.py.
- \* Effectively testing for what to run against the other originally unmodified py2 files.

```
2to3/2to3-output-setup.log | 35 ++++++
setup.py | 7 +-
setup.py.bak | 116 ++++++
3 files changed, 154 insertions(+), 4 deletions(-)
```

commit edad44955f59aa879e95a369591717fb19eec6b7

Author: Ben McGinnes <ben@adversary.org>

Date: Fri May 1 21:50:07 2015 +1000

Removing 2to3 generated .bak files.

- \* Not really needed with a real VCS, but couldn't hurt to have them for a couple of revisions. ;)

```
examples/PyGtkGpgKeys.py.bak | 663 -----
examples/encrypt-to-all.py.bak | 65 --
examples/exportimport.py.bak | 75 --
examples/genkey.py.bak | 45 -
examples/inter-edit.py.bak | 57 --
examples/pygpa.py.bak | 1457 -----
examples/sign.py.bak
| 31 -
examples/signverify.py.bak | 78 --
examples/simple.py.bak | 52 --
examples/t-edit.py.bak | 59 --
examples/testCMSgetkey.py.bak | 45 -
examples/verifydetails.py.bak | 100 ---
gpgme-h-clean.py.bak | 42 -
pyme/callbacks.py.bak | 47 --
pyme/constants/data/__init__.py.bak | 4 -
pyme/constants/keylist/__init__.py.bak | 4 -
pyme/constants/sig/__init__.py.bak | 4 -
pyme/core.py.bak | 463 -----
pyme/util.py.bak | 72 --
pyme/version.py.bak | 41 -
20 files changed, 3404 deletions(-)
```

commit 1cfc3c969f885ed191610bffb60ac23fdd349e

Author: Ben McGinnes <ben@adversary.org>

Date: Fri May 1 21:45:50 2015 +1000

2to3 conversion log

\* The output of the command to convert the code from Python 2 to 3.

\* Note: this contains the list of files which were not modified

and

which will or may need to be modified.

2to3/2to3-output.log | 950 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c

Author: Ben McGinnes <ben@adversary.org>

Date: Fri May 1 21:36:58 2015 +1000

2to3 conversion of pyme master

\* Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721

\* Ran this: or x in `find . | egrep .py\$` ; do 2to3 -w \$x; done ;

\* Multiple files not modified, will record elsewhere (see next commit).

```
examples/PyGtkGpgKeys.py | 10 +-
examples/PyGtkGpgKeys.py.bak | 663 +++++++++++++++++++++++++++++++++
examples/encrypt-to-all.py | 12 +-
examples/encrypt-to-all.py.bak | 65 ++
examples/exportimport.py | 20 +-
examples/exportimport.py.bak | 75 ++
examples/genkey.py | 2 +-
examples/genkey.py.bak | 45 +
examples/inter-edit.py | 8 +-
examples/inter-edit.py.bak | 57 ++
examples/pygpa.py | 40 +-
examples/pygpa.py.bak | 1457 +++++++++++++++++++++++++++++++++++++
examples/sign.py | 2 +-
examples/sign.py.bak | 31 +
examples/signverify.py | 18 +-
examples/signverify.py.bak | 78 ++
examples/simple.py | 8 +-
examples/simple.py.bak | 52 ++
examples/t-edit.py | 12 +-
examples/t-edit.py.bak | 59 ++
examples/testCMSgetkey.py | 8 +-
examples/testCMSgetkey.py.bak | 45 +
examples/verifydetails.py | 34 +-
examples/verifydetails.py.bak | 100 +++
gpgme-h-clean.py | 2 +-

```



```
gpgme-h-clean.py.bak | 42 +
pyme/callbacks.py | 6 +-
pyme/callbacks.py.bak | 47 ++
pyme/constants/data/__init__.py
| 2 +-
pyme/constants/data/__init__.py.bak | 4 +
pyme/constants/keylist/__init__.py | 2 +-
pyme/constants/keylist/__init__.py.bak | 4 +
pyme/constants/sig/__init__.py | 2 +-
pyme/constants/sig/__init__.py.bak | 4 +
pyme/core.py | 26 +-
pyme/core.py.bak | 463 ++++++++
pyme/util.py | 6 +-
pyme/util.py.bak | 72 ++
pyme/version.py | 2 +-
pyme/version.py.bak | 41 +
40 files changed, 3515 insertions(+), 111 deletions(-)
```

commit 459f3eca659b4949e394c4a032d9ce2053e6c721

Merge: c5966ab dae7f14

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Wed Jul 9 10:48:33 2014 +0100

Merged in jerrykan/pyme/fix\_setup\_26 (pull request #1)

Provide support for using setup.py with Python v2.6

commit dae7f14a54e6c2bde0ad4da7308cc7fc0d0c0469

Author: John Kristensen

<john.kristensen@dpipwe.tas.gov.au>

Date: Wed Jul 9 15:54:39 2014 +1000

Provide support for using setup.py with Python v2.6

The setup.py script uses subprocess.check\_output() which was introduced in Python v2.7. The equivalent functionality can be achieved without adding much extra code and provide support for Python v2.6.

```
setup.py | 4 +++-
```

1 file changed, 3 insertions(+), 1 deletion(-)

commit c5966abec9d772b3922d32650da288fd50a217be

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Thu May 15 19:43:00 2014 +0100

README.txt in ReST, including headlines

```
README.txt | 8 ++++++--
```

1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Thu May 15 19:37:15 2014 +0100

README.txt in ReST

README.txt | 25 ++++++-----  
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484cba8801df23ccc5842335fa496c0df  
Author:  
Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Thu May 15 19:28:12 2014 +0100

added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in | 6 ++++++  
README.md | 27 -----  
README.txt | 27 ++++++  
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Tue May 13 09:52:44 2014 +0100

added mailing list to README

README.md | 19 ++++++----  
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Sun May 11 13:34:28 2014 +0100

we don't need a separate out of date ChangeLog file

ChangeLog | 802 -----  
1 file changed, 802 deletions(-)

commit 8263f1a6d38fdb7f5f3dd5c7e28f83caa7528a08  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date:  
Sun May 11 13:32:31 2014 +0100

adding README.md

README.md | 14 ++++++

1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:43:06 2014 +0100

ValueError -> RuntimeError

setup.py | 4 +++-

1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36aac0d10926a2335b739

Merge: eea6537 d2738b3

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:41:02 2014 +0100

Merge branch 'master' of bitbucket.org:malb/pyme

Conflicts:

setup.py

commit eea6537921061b4dcfc54e00a99d3fa110e71433

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:39:51 2014 +0100

check for swig

setup.py | 8 ++++++

1 file changed, 8 insertions(+)

commit 53867bf9715ee1b4ea873bf5e2fbb7d9740a2b4a

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++-

1 file changed, 7 insertions(+), 1 deletion(-)

commit d2738b35d63b1492d69641c5466103685f2d3a30

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 ++++++-

1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240becf8ba6cf1d4c1f64b2cb4c056f5163  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Fri May 9 15:20:24 2014 +0100

version number should have three digits

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Wed May 7 15:11:08 2014 +0100

bump version number for upcoming release

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date:  
Sat May 3 19:36:25 2014 +0100

bump version number to indicate changes

pyme/version.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b3f47c1a343242ac83b326cacd12a136e  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Sat May 3 19:34:07 2014 +0100

pyme instead of pygpgme

setup.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45ccb82333b25f2cf36ce7d  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Sat May 3 19:31:10 2014 +0100

dirty hack to make 'python setup.py install' work

setup.py | 7 +++++--  
1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eab9db478b7e603324bc5d243bd3c84bad

Author: Martin Albrecht <martinralbrecht@googlemail.com>

Date: Sat May 3 19:05:44 2014 +0100

moved everything down to the toplevel directory

```
COPYING | 340 ++
COPYING.LESSER | 510 +++
ChangeLog
 | 802 ++++++
INSTALL | 15 +
Makefile | 104 +
debian/README.Debian | 6 +
debian/changelog | 93 +
debian/control | 34 +
debian/copyright | 25 +
debian/docs | 2 +
debian/examples | 2 +
debian/rules | 99 +
examples/PyGtkGpgKeys.glade | 1394 ++++++++
examples/PyGtkGpgKeys.gladep | 8 +
examples/PyGtkGpgKeys.py | 663 ++++
examples/delkey.py | 34 +
examples/encrypt-to-all.py | 65 +
examples/exportimport.py | 75 +
examples/genkey.py | 45 +
examples/inter-edit.py | 57 +
examples/pygpa.glade | 5546 ++++++++
examples/pygpa.py
 | 1457 ++++++++
examples/sign.py | 31 +
examples/signverify.py | 78 +
examples/simple.py | 52 +
examples/t-edit.py | 59 +
examples/testCMSgetkey.py | 45 +
examples/verifydetails.py | 100 +
gpgme-h-clean.py | 42 +
gpgme.i | 267 ++
helpers.c | 154 +
helpers.h | 36 +
pyme/COPYING | 340 --
pyme/COPYING.LESSER | 510 ---
pyme/ChangeLog | 802 -----
pyme/INSTALL | 15 -
pyme/Makefile | 104 -
pyme/__init__.py | 137 +
pyme/callbacks.py | 47 +
pyme/constants/__init__.py | 7 +
pyme/constants/data/__init__.py | 4
```

```

+
pyme/constants/data/encoding.py | 20 +
pyme/constants/event.py | 20 +
pyme/constants/import.py | 20 +
pyme/constants/keylist/__init__.py | 4 +
pyme/constants/keylist/mode.py | 20 +
pyme/constants/md.py | 20 +
pyme/constants/pk.py | 20 +
pyme/constants/protocol.py | 20 +
pyme/constants/sig/__init__.py | 4 +
pyme/constants/sig/mode.py | 20 +
pyme/constants/sigsum.py | 20 +
pyme/constants/status.py | 20 +
pyme/constants/validity.py | 20 +
pyme/core.py | 463 +++
pyme/debian/README.Debian | 6 -
pyme/debian/changelog | 93 -
pyme/debian/control | 34 -
pyme/debian/copyright | 25 -
pyme/debian/docs | 2 -
pyme/debian/examples |
2 -
pyme/debian/rules | 99 -
pyme/errors.py | 46 +
pyme/examples/PyGtkGpgKeys.glade | 1394 -----
pyme/examples/PyGtkGpgKeys.gladep | 8 -
pyme/examples/PyGtkGpgKeys.py | 663 ----
pyme/examples/delkey.py | 34 -
pyme/examples/encrypt-to-all.py | 65 -
pyme/examples/exportimport.py | 75 -
pyme/examples/genkey.py | 45 -
pyme/examples/inter-edit.py | 57 -
pyme/examples/pygpa.glade | 5546 -----
pyme/examples/pygpa.py | 1457 -----
pyme/examples/sign.py | 31 -
pyme/examples/signverify.py | 78 -
pyme/examples/simple.py | 52 -
pyme/examples/t-edit.py | 59 -
pyme/examples/testCMSgetkey.py | 45 -
pyme/examples/verifydetails.py | 100 -
pyme/gpgme-h-clean.py | 42 -
pyme/gpgme.i | 267 --
pyme/helpers.c | 154 -
pyme/helpers.h | 36 -
pyme/pyme/__init__.py | 137 -
pyme/pyme/callbacks.py | 47 -
pyme/pyme/constants/__init__.py | 7 -
pyme/pyme/constants/data/__init__.py | 4 -

```

```

pyme/pyme/constants/data/encoding.py | 20 -
pyme/pyme/constants/event.py | 20 -
pyme/pyme/constants/import.py | 20 -
pyme/pyme/constants/keylist/__init__.py | 4 -
pyme/pyme/constants/keylist/mode.py | 20 -
pyme/pyme/constants/md.py | 20 -
pyme/pyme/constants/pk.py | 20 -
pyme/pyme/constants/protocol.py | 20 -
pyme/pyme/constants/sig/__init__.py | 4 -
pyme/pyme/constants/sig/mode.py | 20 -
pyme/pyme/constants/sigsum.py | 20 -
pyme/pyme/constants/status.py | 20 -
pyme/pyme/constants/validity.py | 20
-
pyme/pyme/core.py | 463 ---
pyme/pyme/errors.py | 46 -
pyme/pyme/util.py | 72 -
pyme/pyme/version.py | 41 -
pyme/setup.py | 99 -
pyme/util.py | 72 +
pyme/version.py | 41 +
setup.py | 99 +
108 files changed, 13384 insertions(+), 13384 deletions(-)

```

```

commit 8148cdd424c434e833ce427612ea8c89abc6e41c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 18:58:52 2014 +0100

```

removing pyme-web

```

pyme-web/Makefile | 15 -
pyme-web/default.css | 37 --
pyme-web/doc/gpgme/ASCII-Armor.html | 57 ---
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 ----
pyme-web/doc/gpgme/Algorithms.html | 47 --
pyme-web/doc/gpgme/Building-the-Source.html | 82 ----
.../doc/gpgme/Callback-Based-Data-Buffers.html | 148 -----
pyme-web/doc/gpgme/Cancellation.html | 67 ---
pyme-web/doc/gpgme/Concept-Index.html | 186 -----
pyme-web/doc/gpgme/Context-Attributes.html | 52 --
pyme-web/doc/gpgme/Contexts.html | 61 ---
pyme-web/doc/gpgme/Creating-Contexts.html | 49 --
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 --
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 -----
pyme-web/doc/gpgme/Crypto-Engine.html | 79 ---
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ---
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 --
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ----

```

|                                                    |           |
|----------------------------------------------------|-----------|
| pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html  | 100 ----  |
| pyme-web/doc/gpgme/Decrypt-and-Verify.html         | 79 ---    |
| pyme-web/doc/gpgme/Decrypt.html                    | 123 ----  |
| pyme-web/doc/gpgme/Deleting-Keys.html              | 67        |
| ---                                                |           |
| pyme-web/doc/gpgme/Destroying-Contexts.html        | 46 --     |
| pyme-web/doc/gpgme/Destroying-Data-Buffers.html    | 70 ---    |
| pyme-web/doc/gpgme/Encrypt.html                    | 45 --     |
| pyme-web/doc/gpgme/Encrypting-a-Plaintext.html     | 147 ----- |
| pyme-web/doc/gpgme/Engine-Configuration.html       | 65 ---    |
| pyme-web/doc/gpgme/Engine-Information.html         | 119 ----  |
| pyme-web/doc/gpgme/Engine-Version-Check.html       | 48 --     |
| pyme-web/doc/gpgme/Error-Codes.html                | 133 ----  |
| pyme-web/doc/gpgme/Error-Handling.html             | 72 ---    |
| pyme-web/doc/gpgme/Error-Sources.html              | 89 ----   |
| pyme-web/doc/gpgme/Error-Strings.html              | 80 ---    |
| pyme-web/doc/gpgme/Error-Values.html               | 159 ----- |
| pyme-web/doc/gpgme/Exchanging-Data.html            | 58 ---    |
| pyme-web/doc/gpgme/Exporting-Keys.html             | 101 ----  |
| pyme-web/doc/gpgme/Features.html                   | 59 ---    |
| pyme-web/doc/gpgme/File-Based-Data-Buffers.html    | 74        |
| ---                                                |           |
| pyme-web/doc/gpgme/Function-and-Data-Index.html    | 229 ----- |
| pyme-web/doc/gpgme/Generating-Keys.html            | 144 ----- |
| pyme-web/doc/gpgme/Getting-Started.html            | 55 ---    |
| pyme-web/doc/gpgme/Hash-Algorithms.html            | 59 ---    |
| pyme-web/doc/gpgme/Header.html                     | 53 --     |
| .../doc/gpgme/I_002fO-Callback-Example-GDK.html    | 85 ----   |
| .../gpgme/I_002fO-Callback-Example-GTK_002b.html   | 86 ----   |
| .../doc/gpgme/I_002fO-Callback-Example-Qt.html     | 99 ----   |
| pyme-web/doc/gpgme/I_002fO-Callback-Example.html   | 259 ----- |
| pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 ----- |
| pyme-web/doc/gpgme/Importing-Keys.html             | 171 ----- |
| pyme-web/doc/gpgme/Included-Certificates.html      | 70 ---    |
| pyme-web/doc/gpgme/Information-About-Keys.html     | 207 ----- |
| .../doc/gpgme/Information-About-Trust-Items.html   | 75 ---    |
| pyme-web/doc/gpgme/Introduction.html               | 53 --     |
| pyme-web/doc/gpgme/Key-Listing-Mode.html           | 99 ----   |
| pyme-web/doc/gpgme/Key-Management.html             | 260 ----- |
| pyme-web/doc/gpgme/Key-Signatures.html             | 130 ----  |
| .../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 ----  |
| pyme-web/doc/gpgme/Library-Copying.html            | 542 ----- |
| pyme-web/doc/gpgme/Library-Version-Check.html      | 97 ----   |
| pyme-web/doc/gpgme/Listing-Keys.html               | 204 ----- |
| pyme-web/doc/gpgme/Listing-Trust-Items.html        | 88 ----   |
| pyme-web/doc/gpgme/Locale.html                     | 69 ---    |
| pyme-web/doc/gpgme/Manipulating-Data-Buffers.html  | 45 --     |



|                                                    |           |
|----------------------------------------------------|-----------|
| pyme-web/doc/gpgme/Manipulating-Keys.html          | 63 ---    |
| pyme-web/doc/gpgme/Manipulating-Trust-Items.html   | 62 ---    |
| pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html  | 107 ----  |
| pyme-web/doc/gpgme/Multi-Threading.html            | 93 ----   |
| pyme-web/doc/gpgme/OpenPGP.html                    | 44 --     |
| pyme-web/doc/gpgme/Overview.html                   | 57 ---    |
| pyme-web/doc/gpgme/Passphrase-Callback.html        | 101 ----  |
| pyme-web/doc/gpgme/Preparation.html                | 54 --     |
| pyme-web/doc/gpgme/Progress-Meter-Callback.html    | 80 ---    |
| pyme-web/doc/gpgme/Protocol-Selection.html         | 60 ---    |
| pyme-web/doc/gpgme/Protocols-and-Engines.html      | 82 ----   |
| pyme-web/doc/gpgme/Public-Key-Algorithms.html      | 74 ---    |
| .../doc/gpgme/Registering-I_002fO-Callbacks.html   | 81 ---    |
| pyme-web/doc/gpgme/Run-Control.html                | 53 --     |
| pyme-web/doc/gpgme/Selecting-Signers.html          | 64 ---    |
| pyme-web/doc/gpgme/Sign.html                       | 50 --     |
| pyme-web/doc/gpgme/Signal-Handling.html            | 61 ---    |
| pyme-web/doc/gpgme/Signature-Notation-Data.html    | 85 ----   |
| pyme-web/doc/gpgme/Text-Mode.html                  | 63 ---    |
| pyme-web/doc/gpgme/Trust-Item-Management.html      | 68 ---    |
| pyme-web/doc/gpgme/Using-Automake.html             | 74 ---    |
| pyme-web/doc/gpgme/Using-External-Event-Loops.html | 74 ---    |
| pyme-web/doc/gpgme/Using-Libtool.html              | 44 --     |
| pyme-web/doc/gpgme/Verify.html                     | 492 ----- |
| pyme-web/doc/gpgme/Waiting-For-Completion.html     | 77 ---    |
| pyme-web/doc/gpgme/index.html                      | 169 ----- |
| pyme-web/doc/pyme/index.html                       | 164 ----- |
| pyme-web/doc/pyme/pyme.callbacks.html              | 42 --     |
| .../doc/pyme/pyme.constants.data.encoding.html     | 48 --     |
| pyme-web/doc/pyme/pyme.constants.data.html         | 29 --     |
| pyme-web/doc/pyme/pyme.constants.event.html        | 48 --     |
| pyme-web/doc/pyme/pyme.constants.html              | 39 --     |
| pyme-web/doc/pyme/pyme.constants.import.html       | 49 --     |
| pyme-web/doc/pyme/pyme.constants.keylist.html      | 29 --     |
| pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 49 --     |
| pyme-web/doc/pyme/pyme.constants.md.html           | 58 ---    |
| pyme-web/doc/pyme/pyme.constants.pk.html           | 50 --     |
| pyme-web/doc/pyme/pyme.constants.protocol.html     | 48 --     |
| pyme-web/doc/pyme/pyme.constants.sig.html          | 29 --     |
| pyme-web/doc/pyme/pyme.constants.sig.mode.html     | 47 --     |
| pyme-web/doc/pyme/pyme.constants.sigsum.html       | 55 ---    |
| pyme-web/doc/pyme/pyme.constants.status.html       | 126 ----  |
| pyme-web/doc/pyme/pyme.constants.validity.html     | 50 --     |
| pyme-web/doc/pyme/pyme.core.html                   | 277 ----- |
| pyme-web/doc/pyme/pyme.errors.html                 | 82 ----   |

pyme-web/doc/pyme/pyme.html | 164 -----  
pyme-web/doc/pyme/pyme.util.html | 81 ---  
pyme-web/doc/pyme/pyme.version.html | 37 --  
pyme-web/index.html | 72 ---  
112 files changed, 10551 deletions(-)

commit 684d95feb7e10e538a56fb1b27f1456111bacb60  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Mon Jan 6 17:44:20 2014 +0100

fixing op\_export\_keys()

the conversion of gpgme\_key\_t [] was restricted to gpgme\_key\_t [] with the  
name recv, i.e. only  
the use-cases of encryption were covered.

see: [http://sourceforge.net/mailarchive/forum.php?forum\\_name=pyme-help&max\\_rows=25&style=nested&viewmonth=201309](http://sourceforge.net/mailarchive/forum.php?forum_name=pyme-help&max_rows=25&style=nested&viewmonth=201309)

pyme/gpgme.i | 6 +++---  
1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88  
Author: Martin Albrecht <martinralbrecht@googlemail.com>  
Date: Mon Jan 6 17:41:33 2014 +0100

deleting CVSROOT

CVSROOT/checkoutlist | 13 -----  
CVSROOT/commitinfo | 15 -----  
CVSROOT/config | 21 -----  
CVSROOT/cvswrappers | 19 -----  
CVSROOT/editinfo | 21 -----  
CVSROOT/loginfo | 26 -----  
CVSROOT/modules | 26 -----  
CVSROOT/notify | 12 -----  
CVSROOT/rcsinfo | 13 -----  
CVSROOT/taginfo | 20 -----  
CVSROOT/verifymsg | 21 -----  
11 files changed, 207 deletions(-)

commit 576b555499c094c4786d42de9e59aa9826009b89  
Author:  
convert-repo <devnull@localhost>  
Date: Mon Jan 6 15:22:44 2014 +0000

update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d

Author: belyi <devnull@localhost>

Date: Wed Nov 26 02:38:33 2008 +0000

Move Windows specific fix from helpers.c to helpers.h so that it works for edit callback as well as for the passphrase one.

pyme/helpers.c | 5 ----

pyme/helpers.h | 5 +++++

2 files changed, 5 insertions(+), 5 deletions(-)

commit 42a035f2ef62470fea7a7f8ee33a1297fa90a603

Author: belyi <devnull@localhost>

Date: Mon Nov 24 21:44:30 2008 +0000

Update the way build directives are constructed on MinGW to have a bit more robust. Update PyMe build version to 0.8.1 in version.py

pyme/pyme/version.py | 2 +-

pyme/setup.py | 10 ++++++---

2 files changed, 9 insertions(+), 3 deletions(-)

commit 3aaa20fbcba17066c9ffd580f5209946022793a2

Author: belyi <devnull@localhost>

Date: Mon Nov 24 06:57:11 2008 +0000

Update changelog

pyme/debian/changelog

| 5 ++++-

1 file changed, 4 insertions(+), 1 deletion(-)

commit 689ff46b2550547e3883f809a6dc40c22c3e137e

Author: belyi <devnull@localhost>

Date: Mon Nov 24 06:50:41 2008 +0000

Fix hang problem on Windows when password is written to a filehandle.  
Fix the way path is constructed on MinGW platform.

pyme/helpers.c | 5 +++++

pyme/setup.py | 4 +++-

2 files changed, 7 insertions(+), 2 deletions(-)

commit 852a60d541d66cb56f40378182b976fd87a02c46

Author: belyi <devnull@localhost>

Date: Sun Nov 23 04:31:31 2008 +0000

Add Bernard's example testCMSgetkey.py and his updates for

verifydetails.py

pyme/examples/testCMSgetkey.py | 45 +++++  
pyme/examples/verifydetails.py | 43 +++++-----  
2 files changed, 77 insertions(+), 11 deletions(-)

commit f080527d9184f3360f0a8ef6136b9a188d8e7d2a  
Author: belyi <devnull@localhost>  
Date: Thu May 29 18:29:37 2008 +0000

Remove debian packaging for python2.3  
since it is removed from both  
testing and unstable dists.  
Update docs build target to have correct PYTHONPATH set.

pyme/Makefile | 2 +-  
pyme/debian/changelog | 4 +++-  
pyme/debian/control | 4 +++-  
pyme/debian/rules | 2 --  
4 files changed, 6 insertions(+), 6 deletions(-)

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 13:37:12 2008 +0000

Forgot to adjust mainText margin. Doing it now.

pyme-web/default.css | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

commit 897286a54a32336d060cd03305cdec7905f34f1  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 13:00:11 2008 +0000

Fix an error in default.css and make index.html "Standards Compliant".

pyme-web/default.css | 2 +-  
pyme-web/index.html | 7 ++++---  
2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a  
Author: belyi <devnull@localhost>  
Date: Thu Apr 3 12:38:42 2008 +0000

Adjust spacing  
between links.

pyme-web/default.css | 9 ++++---

1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bddfbd77483b1deb14f2eab0715a03dd33fcd

Author: belyi <devnull@localhost>

Date: Wed Apr 2 22:50:21 2008 +0000

Make style a big more IE friendly.

pyme-web/default.css | 15 ++++++++-----

1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232

Author: belyi <devnull@localhost>

Date: Wed Apr 2 11:58:32 2008 +0000

Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +-  
pyme-web/doc/gpgme/Concept-Index.html | 2 +-  
pyme-web/doc/gpgme/Contexts.html | 2 +-  
pyme-web/doc/gpgme/Error-Handling.html | 2 +-  
pyme-web/doc/gpgme/Exchanging-Data.html | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 2 +-  
pyme-web/doc/gpgme/Introduction.html | 4 +-  
pyme-web/doc/gpgme/Library-Copying.html  
| 2 +-  
pyme-web/doc/gpgme/Preparation.html | 2 +-  
pyme-web/doc/gpgme/Protocols-and-Engines.html | 2 +-  
pyme-web/doc/gpgme/index.html | 229 +-----  
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0ccb049d4442e7732e2d1d05dabffd2a21d

Author: belyi <devnull@localhost>

Date: Wed Apr 2 06:12:57 2008 +0000

Add missing core.set\_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +-  
pyme/pyme/core.py | 4 ++++  
2 files changed, 5 insertions(+), 1 deletion(-)

commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f

Author: belyi <devnull@localhost>

Date: Wed Apr 2 05:50:24 2008 +0000

Avoid leaks caused by keys.

Add set/get methods for engine info.

pyme/debian/changelog | 10 ++++++++  
pyme/pyme/core.py | 24 ++++++++  
2 files changed, 34 insertions(+)

commit df4a2fb518adbb6420d95ce74af212c87abff7e7  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2  
04:04:41 2008 +0000

Update index.html to reflect new versions on the web.

pyme-web/Makefile | 3 +-  
pyme-web/doc/gpgme/index.html | 4 +---  
pyme-web/index.html | 4 ++--  
3 files changed, 5 insertions(+), 6 deletions(-)

commit bd3ffc9bdf98d6aafde6b689c6c8215fa468612d  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 04:01:04 2008 +0000

Update PyMe documentation to match 0.8.0 version of the package.

pyme-web/doc/pyme/index.html | 14 ++++-----  
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 1 +  
pyme-web/doc/pyme/pyme.constants.protocol.html | 4 +-  
pyme-web/doc/pyme/pyme.constants.status.html | 9 ++++++  
pyme-web/doc/pyme/pyme.core.html | 36 ++++++++  
pyme-web/doc/pyme/pyme.errors.html | 8 +----  
pyme-web/doc/pyme/pyme.html | 14 ++++-----  
pyme-web/doc/pyme/pyme.util.html | 17 ++++++++  
pyme-web/doc/pyme/pyme.version.html  
| 14 ++++-----  
9 files changed, 82 insertions(+), 35 deletions(-)

commit 6973a69a317608a0d0661590d701f4e3f3a21b32  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 02:35:24 2008 +0000

Have a fix for Contents being put onto 'Function and Data Index' page.

pyme-web/doc/gpgme/Concept-Index.html | 2 +-  
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +-----  
pyme-web/doc/gpgme/index.html | 154 ++++++++  
3 files changed, 155 insertions(+), 154 deletions(-)

commit 086315964cbc2abad1187f306dcb9c72ac3257f3  
Author: belyi <devnull@localhost>  
Date: Wed Apr 2 01:00:29 2008 +0000

Update GPGME documentation. It's for v1.1.6 now.

pyme-web/doc/gpgme/ASCII-Armor.html | 57 ++  
pyme-web/doc/gpgme/Advanced-Key-Editing.html | 98 +++  
pyme-web/doc/gpgme/Algorithms.html | 47 ++  
pyme-web/doc/gpgme/Building-the-Source.html | 82 +++  
.../doc/gpgme/Callback-Based-Data-Buffers.html  
| 148 +++++  
pyme-web/doc/gpgme/Cancellation.html | 67 ++  
pyme-web/doc/gpgme/Concept-Index.html | 186 ++++++  
pyme-web/doc/gpgme/Context-Attributes.html | 52 ++  
pyme-web/doc/gpgme/Contexts.html | 61 ++  
pyme-web/doc/gpgme/Creating-Contexts.html | 49 ++  
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 ++  
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 +++++  
pyme-web/doc/gpgme/Crypto-Engine.html | 79 +++  
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ++  
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 ++  
.../doc/gpgme/Data-Buffer-I\_002fO-Operations.html | 104 +++++  
pyme-web/doc/gpgme/Data-Buffer-Meta\_002dData.html | 100 +++  
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 +++  
pyme-web/doc/gpgme/Decrypt.html | 123 ++++  
pyme-web/doc/gpgme/Deleting-Keys.html | 67 ++  
pyme-web/doc/gpgme/Destroying-Contexts.html  
| 46 ++  
pyme-web/doc/gpgme/Destroying-Data-Buffers.html | 70 +++  
pyme-web/doc/gpgme/Encrypt.html | 45 ++  
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 ++++++  
pyme-web/doc/gpgme/Engine-Configuration.html | 65 ++  
pyme-web/doc/gpgme/Engine-Information.html | 119 +++++  
pyme-web/doc/gpgme/Engine-Version-Check.html | 48 ++  
pyme-web/doc/gpgme/Error-Codes.html | 133 +++++  
pyme-web/doc/gpgme/Error-Handling.html | 72 +++  
pyme-web/doc/gpgme/Error-Sources.html | 89 +++  
pyme-web/doc/gpgme/Error-Strings.html | 80 +++  
pyme-web/doc/gpgme/Error-Values.html | 159 ++++++  
pyme-web/doc/gpgme/Exchanging-Data.html | 58 ++  
pyme-web/doc/gpgme/Exporting-Keys.html | 101 +++  
pyme-web/doc/gpgme/Features.html | 59 ++  
pyme-web/doc/gpgme/File-Based-Data-Buffers.html | 74 +++  
pyme-web/doc/gpgme/Function-and-Data-Index.html  
| 380 ++++++  
pyme-web/doc/gpgme/Generating-Keys.html | 144 ++++++  
pyme-web/doc/gpgme/Getting-Started.html | 55 ++  
pyme-web/doc/gpgme/Hash-Algorithms.html | 59 ++  
pyme-web/doc/gpgme/Header.html | 53 ++  
.../doc/gpgme/I\_002fO-Callback-Example-GDK.html | 85 +++

```

.../gpgme/I_002fO-Callback-Example-GTK_002b.html | 86 +++
.../doc/gpgme/I_002fO-Callback-Example-Qt.html | 99 +++
pyme-web/doc/gpgme/I_002fO-Callback-Example.html | 259 ++++++++
pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 ++++++
pyme-web/doc/gpgme/Importing-Keys.html | 171 ++++++
pyme-web/doc/gpgme/Included-Certificates.html | 70 +++
pyme-web/doc/gpgme/Information-About-Keys.html | 207 ++++++++
.../doc/gpgme/Information-About-Trust-Items.html | 75 +++
pyme-web/doc/gpgme/Introduction.html | 53 ++
pyme-web/doc/gpgme/Key-Listing-Mode.html | 99 +++
pyme-web/doc/gpgme/Key-Management.html
| 260 ++++++++
pyme-web/doc/gpgme/Key-Signatures.html | 130 +++++
.../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 +++++
pyme-web/doc/gpgme/Library-Copying.html | 542 ++++++++
pyme-web/doc/gpgme/Library-Version-Check.html | 97 +++
pyme-web/doc/gpgme/Listing-Keys.html | 204 ++++++
pyme-web/doc/gpgme/Listing-Trust-Items.html | 88 +++
pyme-web/doc/gpgme/Locale.html | 69 +++
pyme-web/doc/gpgme/Manipulating-Data-Buffers.html | 45 ++
pyme-web/doc/gpgme/Manipulating-Keys.html | 63 ++
pyme-web/doc/gpgme/Manipulating-Trust-Items.html | 62 ++
pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html | 107 +++++
pyme-web/doc/gpgme/Multi-Threading.html | 93 +++
pyme-web/doc/gpgme/OpenPGP.html | 44 ++
pyme-web/doc/gpgme/Overview.html | 57 ++
pyme-web/doc/gpgme/Passphrase-Callback.html | 101 +++
pyme-web/doc/gpgme/Preparation.html
| 54 ++
pyme-web/doc/gpgme/Progress-Meter-Callback.html | 80 +++
pyme-web/doc/gpgme/Protocol-Selection.html | 60 ++
pyme-web/doc/gpgme/Protocols-and-Engines.html | 82 +++
pyme-web/doc/gpgme/Public-Key-Algorithms.html | 74 +++
.../doc/gpgme/Registering-I_002fO-Callbacks.html | 81 +++
pyme-web/doc/gpgme/Run-Control.html | 53 ++
pyme-web/doc/gpgme/Selecting-Signers.html | 64 ++
pyme-web/doc/gpgme/Sign.html | 50 ++
pyme-web/doc/gpgme/Signal-Handling.html | 61 ++
pyme-web/doc/gpgme/Signature-Notation-Data.html | 85 +++
pyme-web/doc/gpgme/Text-Mode.html | 63 ++
pyme-web/doc/gpgme/Trust-Item-Management.html | 68 ++
pyme-web/doc/gpgme/Using-Automake.html | 74 +++
pyme-web/doc/gpgme/Using-External-Event-Loops.html | 74 +++
pyme-web/doc/gpgme/Using-Libtool.html | 44 ++
pyme-web/doc/gpgme/Verify.html
| 492 ++++++++
pyme-web/doc/gpgme/Waiting-For-Completion.html | 77 +++
pyme-web/doc/gpgme/gpgme.html | 251 -----

```



|                                  |           |
|----------------------------------|-----------|
| pyme-web/doc/gpgme/gpgme_1.html  | 76 ---    |
| pyme-web/doc/gpgme/gpgme_10.html | 61 --     |
| pyme-web/doc/gpgme/gpgme_11.html | 130 ----  |
| pyme-web/doc/gpgme/gpgme_12.html | 82 ---    |
| pyme-web/doc/gpgme/gpgme_13.html | 130 ----  |
| pyme-web/doc/gpgme/gpgme_14.html | 108 ----  |
| pyme-web/doc/gpgme/gpgme_15.html | 69 ---    |
| pyme-web/doc/gpgme/gpgme_16.html | 169 ----- |
| pyme-web/doc/gpgme/gpgme_17.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_18.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_19.html | 66 --     |
| pyme-web/doc/gpgme/gpgme_2.html  | 79 ---    |
| pyme-web/doc/gpgme/gpgme_20.html | 120 ----  |
| pyme-web/doc/gpgme/gpgme_21.html | 102 ---   |
| pyme-web/doc/gpgme/gpgme_22.html | 108 ----  |
| pyme-web/doc/gpgme/gpgme_23.html | 237 ----- |
| pyme-web/doc/gpgme/gpgme_24.html | 154 ----- |
| pyme-web/doc/gpgme/gpgme_25.html | 248 ----- |
| pyme-web/doc/gpgme/gpgme_26.html | 107 ----  |
| pyme-web/doc/gpgme/gpgme_27.html | 80 ---    |
| pyme-web/doc/gpgme/gpgme_28.html | 67 --     |
| pyme-web/doc/gpgme/gpgme_29.html | 164 ----- |
| pyme-web/doc/gpgme/gpgme_3.html  | 86 ---    |
| pyme-web/doc/gpgme/gpgme_30.html | 106 ----  |
| pyme-web/doc/gpgme/gpgme_31.html | 232 ----- |
| pyme-web/doc/gpgme/gpgme_32.html | 85 ---    |
| pyme-web/doc/gpgme/gpgme_33.html | 223 ----- |
| pyme-web/doc/gpgme/gpgme_34.html | 83 ---    |
| pyme-web/doc/gpgme/gpgme_35.html | 70 ---    |
| pyme-web/doc/gpgme/gpgme_36.html | 63 --     |
| pyme-web/doc/gpgme/gpgme_37.html | 66 --     |
| pyme-web/doc/gpgme/gpgme_38.html | 86 ---    |
| pyme-web/doc/gpgme/gpgme_39.html | 79 ---    |
| pyme-web/doc/gpgme/gpgme_4.html  | 83 ---    |
| pyme-web/doc/gpgme/gpgme_40.html | 89 ---    |
| pyme-web/doc/gpgme/gpgme_41.html | 99 ---    |
| pyme-web/doc/gpgme/gpgme_42.html | 144 ----- |
| pyme-web/doc/gpgme/gpgme_43.html | 152 ----- |
| pyme-web/doc/gpgme/gpgme_44.html | 112 ----  |
| pyme-web/doc/gpgme/gpgme_45.html | 101 ---   |
| pyme-web/doc/gpgme/gpgme_46.html | 459 ----- |
| pyme-web/doc/gpgme/gpgme_47.html | 292 ----- |
| pyme-web/doc/gpgme/gpgme_48.html | 363 ----- |
| pyme-web/doc/gpgme/gpgme_49.html | 209 ----- |
| pyme-web/doc/gpgme/gpgme_5.html  |           |

| 74 ---

|                                  |           |
|----------------------------------|-----------|
| pyme-web/doc/gpgme/gpgme_50.html | 88 ---    |
| pyme-web/doc/gpgme/gpgme_51.html | 208 ----- |
| pyme-web/doc/gpgme/gpgme_52.html | 154 ----- |
| pyme-web/doc/gpgme/gpgme_53.html | 291 ----- |
| pyme-web/doc/gpgme/gpgme_54.html | 91 ---    |
| pyme-web/doc/gpgme/gpgme_55.html | 107 ----  |
| pyme-web/doc/gpgme/gpgme_56.html | 140 ----- |
| pyme-web/doc/gpgme/gpgme_57.html | 106 ----  |
| pyme-web/doc/gpgme/gpgme_58.html | 89 ---    |
| pyme-web/doc/gpgme/gpgme_59.html | 97 ---    |
| pyme-web/doc/gpgme/gpgme_6.html  | 77 ---    |
| pyme-web/doc/gpgme/gpgme_60.html | 142 ----- |
| pyme-web/doc/gpgme/gpgme_61.html | 626 ----- |
| pyme-web/doc/gpgme/gpgme_62.html | 107 ----  |
| pyme-web/doc/gpgme/gpgme_63.html | 67 --     |
| pyme-web/doc/gpgme/gpgme_64.html |           |

| 95 ---

|                                   |                 |
|-----------------------------------|-----------------|
| pyme-web/doc/gpgme/gpgme_65.html  | 233 -----       |
| pyme-web/doc/gpgme/gpgme_66.html  | 65 --           |
| pyme-web/doc/gpgme/gpgme_67.html  | 220 -----       |
| pyme-web/doc/gpgme/gpgme_68.html  | 75 ---          |
| pyme-web/doc/gpgme/gpgme_69.html  | 119 ----        |
| pyme-web/doc/gpgme/gpgme_7.html   | 123 ----        |
| pyme-web/doc/gpgme/gpgme_70.html  | 107 ----        |
| pyme-web/doc/gpgme/gpgme_71.html  | 218 -----       |
| pyme-web/doc/gpgme/gpgme_72.html  | 134 ----        |
| pyme-web/doc/gpgme/gpgme_73.html  | 299 -----       |
| pyme-web/doc/gpgme/gpgme_74.html  | 103 ----        |
| pyme-web/doc/gpgme/gpgme_75.html  | 104 ----        |
| pyme-web/doc/gpgme/gpgme_76.html  | 118 ----        |
| pyme-web/doc/gpgme/gpgme_77.html  | 95 ---          |
| pyme-web/doc/gpgme/gpgme_78.html  | 71 ---          |
| pyme-web/doc/gpgme/gpgme_79.html  | 686 -----       |
| pyme-web/doc/gpgme/gpgme_8.html   | 155 ----        |
| pyme-web/doc/gpgme/gpgme_80.html  | 120 ----        |
| pyme-web/doc/gpgme/gpgme_81.html  | 278 -----       |
| pyme-web/doc/gpgme/gpgme_82.html  | 272 -----       |
| pyme-web/doc/gpgme/gpgme_83.html  | 180 -----       |
| pyme-web/doc/gpgme/gpgme_84.html  | 99 ---          |
| pyme-web/doc/gpgme/gpgme_9.html   | 104 ----        |
| pyme-web/doc/gpgme/gpgme_abt.html | 206 -----       |
| pyme-web/doc/gpgme/gpgme_fot.html | 53 --           |
| pyme-web/doc/gpgme/gpgme_ovr.html | 68 --           |
| pyme-web/doc/gpgme/gpgme_toc.html | 247 -----       |
| pyme-web/doc/gpgme/index.html     | 497 ++++++----- |

176 files changed, 9054 insertions(+), 13378 deletions(-)

commit 163c1053dc761682f5a4231da163bdd0ff7162d7

Author: belyi <devnull@localhost>

Date:

Tue Apr 1 21:14:29 2008 +0000

Update Home page to be a bit more visitor friendly.

```
pyme-web/Makefile | 2 +-
pyme-web/default.css | 27 ++++++
pyme-web/index.html | 70 ++++++-----
3 files changed, 75 insertions(+), 24 deletions(-)
```

commit 05db2d17d8fda0ab8c948bbdc0643dfc1466830d

Author: belyi <devnull@localhost>

Date: Sun Mar 30 21:27:38 2008 +0000

Add a rule to build binary distribution for Windows.

```
pyme/Makefile | 16 ++++++
1 file changed, 14 insertions(+), 2 deletions(-)
```

commit 57acb1089f5f8c24323ee62fc0a7f492a496b9c0

Author: belyi <devnull@localhost>

Date: Sat Mar 29 22:50:11 2008 +0000

Switch to using central location for python files (pycentral)

Update docs rule to fix location of the python source files.

```
pyme/Makefile | 5 +++-
pyme/debian/changelog | 4 +-
pyme/debian/control | 74 +++++-----
pyme/debian/dirs
| 2 --
pyme/debian/docs | 1 +
pyme/debian/postinst.ex | 48 -----
pyme/debian/postrm.ex | 38 -----
pyme/debian/preinst.ex | 44 -----
pyme/debian/prerm.ex | 39 -----
pyme/debian/rules | 50 +++++-----
pyme/debian/setup.cfg-2.2 | 8 ----
pyme/debian/setup.cfg-2.3 | 8 ----
pyme/debian/setup.cfg-2.4 | 8 ----
pyme/gpgme-h-clean.py | 2 +-
pyme/pyme/core.py | 2 +-
pyme/pyme/util.py | 2 +-
16 files changed, 28 insertions(+), 307 deletions(-)
```

commit 2b56fd10517cfbcffaa4ba98d8ea42f40f0d38a9

Author: belyi <devnull@localhost>  
Date: Sun Mar 23 02:01:12 2008 +0000

Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.  
Use new style for class declarations. Specify None as a default value for  
core.check\_version() method. Update version.py for 0.8.0 version.

```
pyme/examples/pygpa.py | 2 +-
pyme/gpgme.i | 5 +++++
pyme/pyme/core.py | 2 +-
pyme/pyme/util.py | 5 +++--
pyme/pyme/version.py | 6 +++--
5 files changed, 13 insertions(+), 7 deletions(-)
```

commit df5e25d7ee4dc0aa0d429f9d009322dd8ac33bb8  
Author: belyi <devnull@localhost>  
Date: Thu Mar 20 19:07:00 2008 +0000

Improve matching for DEPRECATED typedefs

```
pyme/gpgme-h-clean.py | 4 +++
1 file changed, 2 insertions(+), 2 deletions(-)
```

commit 78d8fc732848ac267ec65e9069265cd500587cdf  
Author: belyi <devnull@localhost>  
Date: Wed Mar 19 19:28:40 2008 +0000

Update API to use list when types containing 'next' field are return.  
Update examples accordingly  
Add verifydetails.py example  
Start adding bullets for 0.8.0 version.

```
pyme/Makefile | 2 +-
pyme/debian/changelog | 14 +++++++-
pyme/examples/PyGtkGpgKeys.py | 53 ++++++++-----
pyme/examples/delkey.py | 7 +++
pyme/examples/encrypt-to-all.py | 7 +++
pyme/examples/exportimport.py | 7 +++
pyme/examples/pygpa.py | 70 ++++++++-----
pyme/examples/signverify.py | 11 +----
pyme/examples/verifydetails.py | 79 ++++++++-----
pyme/gpgme.i | 19 +++++++-
10 files changed, 180 insertions(+), 89 deletions(-)
```

commit 342d85b07475e7360bcd62804bf5facda039494f  
Author: belyi <devnull@localhost>  
Date: Mon Mar 10 01:14:16 2008 +0000

Change references to source files so that they point to the WebCVS browse location.

```
pyme-web/doc/pyme/index.html | 2 +-
pyme-web/doc/pyme/pyme.callbacks.html | 2 +-
pyme-web/doc/pyme/pyme.constants.data.encoding.html | 2 +-
pyme-web/doc/pyme/pyme.constants.data.html | 2 +-
pyme-web/doc/pyme/pyme.constants.event.html | 2 +-
pyme-web/doc/pyme/pyme.constants.html | 2 +-
pyme-web/doc/pyme/pyme.constants.import.html | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.html | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 2 +-
pyme-web/doc/pyme/pyme.constants.md.html | 2 +-
pyme-web/doc/pyme/pyme.constants.pk.html | 2 +-
pyme-web/doc/pyme/pyme.constants.protocol.html | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.html | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 2 +-
pyme-web/doc/pyme/pyme.constants.sigsum.html | 2 +-
pyme-web/doc/pyme/pyme.constants.status.html | 2 +-
pyme-web/doc/pyme/pyme.constants.validity.html | 2 +-
pyme-web/doc/pyme/pyme.core.html | 2 +-
pyme-web/doc/pyme/pyme.errors.html | 2 +-
pyme-web/doc/pyme/pyme.html | 2 +-
pyme-web/doc/pyme/pyme.util.html | 2 +-
pyme-web/doc/pyme/pyme.version.html | 2 +-
22 files changed, 22 insertions(+), 22 deletions(-)
```

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803

Author: belyi

<devnull@localhost>

Date: Sat Mar 8 18:21:08 2008 +0000

Add core.check\_version(None) to all examples since this function is used by Gpgme to do internal initialization. Update debian/rules to use dh\_pysupport instead of deprecated dh\_python.

```
pyme/debian/rules | 8 +++-----
pyme/examples/PyGtkGpgKeys.py | 7 ++++++-
pyme/examples/delkey.py | 2 ++
pyme/examples/encrypt-to-all.py | 3 +++
pyme/examples/exportimport.py | 2 ++
pyme/examples/genkey.py | 1 +
pyme/examples/inter-edit.py | 3 +++
pyme/examples/pygpa.py | 5 +++++
pyme/examples/sign.py | 2 ++
pyme/examples/signverify.py | 2 ++
```

```
pyme/examples/simple.py | 2 ++
pyme/examples/t-edit.py | 3 +++
12 files changed, 34 insertions(+), 6 deletions(-)
```

commit ae76c6176457dd38e0634cbc17d794294a3a81d2

Author: belyi <devnull@localhost>

Date: Wed Apr 12 22:20:38 2006 +0000

Change name of internal package name from 'gpgme' to 'pygpgme' to avoid conflict with gpgme.dll on Windows.

Fix build with SWIG 1.3.28.

Change version to 0.7.1 in a preparation for new release.

```
pyme/Makefile | 3 +-
pyme/debian/changelog | 12 +++++
pyme/gpgme.i | 19 +++++-
pyme/pyme/callbacks.py | 1 -
pyme/pyme/core.py | 153 ++++++-----
pyme/pyme/errors.py | 12 +-
pyme/pyme/util.py | 10 +-
pyme/pyme/version.py | 2 +-
pyme/setup.py | 4 +-
9 files changed, 116 insertions(+), 100 deletions(-)
```

commit d644383a76e9f83bc2d426628319e3c4a989dc2d

Author: belyi <devnull@localhost>

Date: Sat Dec 17 01:34:53 2005 +0000

Put all constants into pyme.constants package to avoid stepping on python reserved words.

Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under Debian are still to come.

Fixed a small bug in pygpa.py example.

```
pyme/Makefile | 11 ++++++---
pyme/examples/pygpa.py
| 3 +-
pyme/pyme/__init__.py | 2 +-
pyme/pyme/constants/__init__.py | 3 +++
pyme/setup.py | 42 ++++++-----
5 files changed, 51 insertions(+), 10 deletions(-)
```

commit 89eb370fcaa8adc9d219eadbaa579dde7bf06329

Author: belyi <devnull@localhost>

Date: Mon Aug 1 03:08:32 2005 +0000

Imported changes provided by Joost van Baal:

Use dh\_python in debian/rules and change the Section pyme belongs to from

'libs' to 'python'.

```
pyme/debian/control | 6 +++---
pyme/debian/rules | 2 ++
2 files changed, 5 insertions(+), 3 deletions(-)
```

commit ad76d10c2a77b45b7459c62131279e946b860891

Author: belyi <devnull@localhost>

Date: Fri Jun 10 03:01:22 2005 +0000

Update 'docs' rule in Makefile to build packages first to ensure that documentation is build for the current version of pyme and not for the installed one.

Added 'callbacks' into the list of visible pyme modules (\_\_all\_\_ var.)

Slightly updated INSTALL  
file.

```
pyme/INSTALL | 11 ++++++-----
pyme/Makefile | 4 +++-
pyme/pyme/__init__.py | 2 +-
3 files changed, 11 insertions(+), 6 deletions(-)
```

commit 2fe1a81e00721698bfa6850b3db2eb85e43d1724

Author: belyi <devnull@localhost>

Date: Wed Jun 8 16:16:18 2005 +0000

Update pyme documentation to remove dead links to pyme.gpgme.html and pyme.\_gpgme.html

Added reference to the installed GPGME and PyMe documentation to the head web page.

Updated Makefile to install all \*.html files and to clean \*~ files in all subdirectories

```
pyme-web/Makefile | 10 ++++++-----
pyme-web/doc/pyme/index.html | 8 +++-----
pyme-web/doc/pyme/pyme.callbacks.html | 8 -----
pyme-web/doc/pyme/pyme.core.html | 1 -
pyme-web/doc/pyme/pyme.errors.html | 8 -----
pyme-web/doc/pyme/pyme.html | 8 +++-----
pyme-web/doc/pyme/pyme.util.html | 8 -----
pyme-web/index.html | 9 ++++++-----
8 files
changed, 19 insertions(+), 41 deletions(-)
```

commit 6aa34cce4ea0099e50b4936dfee59778157b8ca8

Author: belyi <devnull@localhost>

Date: Wed Jun 8 15:18:20 2005 +0000

Added pyme and gpgme documentation.

|                                  |              |
|----------------------------------|--------------|
| pyme-web/doc/gpgme/gpgme.html    | 251 ++++++++ |
| pyme-web/doc/gpgme/gpgme_1.html  | 76 +++       |
| pyme-web/doc/gpgme/gpgme_10.html | 61 ++        |
| pyme-web/doc/gpgme/gpgme_11.html | 130 +++++    |
| pyme-web/doc/gpgme/gpgme_12.html | 82 +++       |
| pyme-web/doc/gpgme/gpgme_13.html | 130 +++++    |
| pyme-web/doc/gpgme/gpgme_14.html | 108 +++++    |
| pyme-web/doc/gpgme/gpgme_15.html | 69 +++       |
| pyme-web/doc/gpgme/gpgme_16.html | 169 ++++++   |
| pyme-web/doc/gpgme/gpgme_17.html | 63 ++        |
| pyme-web/doc/gpgme/gpgme_18.html | 63 ++        |
| pyme-web/doc/gpgme/gpgme_19.html | 66 ++        |
| pyme-web/doc/gpgme/gpgme_2.html  | 79 +++       |
| pyme-web/doc/gpgme/gpgme_20.html | 120 +++++    |
| pyme-web/doc/gpgme/gpgme_21.html | 102 +++      |
| pyme-web/doc/gpgme/gpgme_22.html | 108 +++++    |
| pyme-web/doc/gpgme/gpgme_23.html | 237 ++++++++ |
| pyme-web/doc/gpgme/gpgme_24.html | 154 ++++++   |
| pyme-web/doc/gpgme/gpgme_25.html | 248 ++++++++ |
| pyme-web/doc/gpgme/gpgme_26.html | 107 +++++    |
| pyme-web/doc/gpgme/gpgme_27.html | 80 +++       |
| pyme-web/doc/gpgme/gpgme_28.html | 67 ++        |
| pyme-web/doc/gpgme/gpgme_29.html | 164 ++++++   |
| pyme-web/doc/gpgme/gpgme_3.html  | 86 +++       |
| pyme-web/doc/gpgme/gpgme_30.html | 106 +++++    |
| pyme-web/doc/gpgme/gpgme_31.html | 232 ++++++++ |
| pyme-web/doc/gpgme/gpgme_32.html | 85 +++       |
| pyme-web/doc/gpgme/gpgme_33.html | 223 ++++++++ |
| pyme-web/doc/gpgme/gpgme_34.html | 83 +++       |
| pyme-web/doc/gpgme/gpgme_35.html | 70 +++       |
| pyme-web/doc/gpgme/gpgme_36.html | 63 ++        |
| pyme-web/doc/gpgme/gpgme_37.html | 66 ++        |
| pyme-web/doc/gpgme/gpgme_38.html | 86 +++       |
| pyme-web/doc/gpgme/gpgme_39.html | 79 +++       |
| pyme-web/doc/gpgme/gpgme_4.html  | 83 +++       |
| pyme-web/doc/gpgme/gpgme_40.html | 89 +++       |
| pyme-web/doc/gpgme/gpgme_41.html | 99 +++       |
| pyme-web/doc/gpgme/gpgme_42.html | 144 ++++++   |
| pyme-web/doc/gpgme/gpgme_43.html | 152 ++++++   |
| pyme-web/doc/gpgme/gpgme_44.html | 112 +++++    |
| pyme-web/doc/gpgme/gpgme_45.html | 101 +++      |
| pyme-web/doc/gpgme/gpgme_46.html | 459 ++++++++ |



|                                   |              |
|-----------------------------------|--------------|
| pyme-web/doc/gpgme/gpgme_47.html  | 292 ++++++++ |
| pyme-web/doc/gpgme/gpgme_48.html  | 363 ++++++++ |
| pyme-web/doc/gpgme/gpgme_49.html  | 209 ++++++   |
| pyme-web/doc/gpgme/gpgme_5.html   | 74 +++       |
| pyme-web/doc/gpgme/gpgme_50.html  | 88 +++       |
| pyme-web/doc/gpgme/gpgme_51.html  | 208 ++++++   |
| pyme-web/doc/gpgme/gpgme_52.html  | 154 +++++    |
| pyme-web/doc/gpgme/gpgme_53.html  | 291 ++++++++ |
| pyme-web/doc/gpgme/gpgme_54.html  | 91 +++       |
| pyme-web/doc/gpgme/gpgme_55.html  | 107 ++++     |
| pyme-web/doc/gpgme/gpgme_56.html  | 140 +++++    |
| pyme-web/doc/gpgme/gpgme_57.html  | 106 ++++     |
| pyme-web/doc/gpgme/gpgme_58.html  | 89 +++       |
| pyme-web/doc/gpgme/gpgme_59.html  | 97 +++       |
| pyme-web/doc/gpgme/gpgme_6.html   | 77 +++       |
| pyme-web/doc/gpgme/gpgme_60.html  | 142 +++++    |
| pyme-web/doc/gpgme/gpgme_61.html  | 626 ++++++   |
| pyme-web/doc/gpgme/gpgme_62.html  | 107 ++++     |
| pyme-web/doc/gpgme/gpgme_63.html  | 67 ++        |
| pyme-web/doc/gpgme/gpgme_64.html  | 95 +++       |
| pyme-web/doc/gpgme/gpgme_65.html  | 233 ++++++   |
| pyme-web/doc/gpgme/gpgme_66.html  | 65 ++        |
| pyme-web/doc/gpgme/gpgme_67.html  | 220 ++++++   |
| pyme-web/doc/gpgme/gpgme_68.html  | 75 +++       |
| pyme-web/doc/gpgme/gpgme_69.html  | 119 ++++     |
| pyme-web/doc/gpgme/gpgme_7.html   | 123 ++++     |
| pyme-web/doc/gpgme/gpgme_70.html  | 107 ++++     |
| pyme-web/doc/gpgme/gpgme_71.html  | 218 ++++++   |
| pyme-web/doc/gpgme/gpgme_72.html  | 134 ++++     |
| pyme-web/doc/gpgme/gpgme_73.html  | 299 ++++++++ |
| pyme-web/doc/gpgme/gpgme_74.html  | 103 ++++     |
| pyme-web/doc/gpgme/gpgme_75.html  | 104 ++++     |
| pyme-web/doc/gpgme/gpgme_76.html  | 118 ++++     |
| pyme-web/doc/gpgme/gpgme_77.html  | 95 +++       |
| pyme-web/doc/gpgme/gpgme_78.html  | 71 +++       |
| pyme-web/doc/gpgme/gpgme_79.html  | 686 ++++++   |
| pyme-web/doc/gpgme/gpgme_8.html   | 155 +++++    |
| pyme-web/doc/gpgme/gpgme_80.html  | 120 ++++     |
| pyme-web/doc/gpgme/gpgme_81.html  | 278 ++++++   |
| pyme-web/doc/gpgme/gpgme_82.html  | 272 ++++++   |
| pyme-web/doc/gpgme/gpgme_83.html  | 180 +++++    |
| pyme-web/doc/gpgme/gpgme_84.html  | 99 +++       |
| pyme-web/doc/gpgme/gpgme_9.html   | 104 ++++     |
| pyme-web/doc/gpgme/gpgme_abt.html | 206 ++++++   |
| pyme-web/doc/gpgme/gpgme_fot.html | 53 ++        |

```

pyme-web/doc/gpgme/gpgme_ovr.html | 68 ++
pyme-web/doc/gpgme/gpgme_toc.html | 247 ++++++++
pyme-web/doc/gpgme/index.html | 251 ++++++++
pyme-web/doc/pyme/index.html
 | 166 +++++
pyme-web/doc/pyme/pyme.callbacks.html | 50 ++
.../doc/pyme/pyme.constants.data.encoding.html | 48 ++
pyme-web/doc/pyme/pyme.constants.data.html | 29 +
pyme-web/doc/pyme/pyme.constants.event.html | 48 ++
pyme-web/doc/pyme/pyme.constants.html | 39 ++
pyme-web/doc/pyme/pyme.constants.import.html | 49 ++
pyme-web/doc/pyme/pyme.constants.keylist.html | 29 +
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 48 ++
pyme-web/doc/pyme/pyme.constants.md.html | 58 ++
pyme-web/doc/pyme/pyme.constants.pk.html | 50 ++
pyme-web/doc/pyme/pyme.constants.protocol.html | 46 ++
pyme-web/doc/pyme/pyme.constants.sig.html | 29 +
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 47 ++
pyme-web/doc/pyme/pyme.constants.sigsum.html | 55 ++
pyme-web/doc/pyme/pyme.constants.status.html | 117 +++++
pyme-web/doc/pyme/pyme.constants.validity.html | 50 ++
pyme-web/doc/pyme/pyme.core.html
 | 254 ++++++++
pyme-web/doc/pyme/pyme.errors.html | 90 +++
pyme-web/doc/pyme/pyme.html | 166 ++++++
pyme-web/doc/pyme/pyme.util.html | 78 +++
pyme-web/doc/pyme/pyme.version.html | 37 ++
pyme-web/index.html | 6 +-
113 files changed, 14966 insertions(+), 1 deletion(-)

```

commit 2d6fe54479f042644f7b0f3d2fe35877d2056144

Author: belyi <devnull@localhost>

Date: Thu May 19 02:06:09 2005 +0000

Added INSTALL file.

```
pyme/INSTALL | 10 ++++++++
```

1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bc039c

Author: belyi <devnull@localhost>

Date: Tue May 17 16:49:28 2005 +0000

Update copyright note on simple.py

```
pyme/examples/simple.py | 4 ++--
```

1 file changed, 2 insertions(+), 2 deletions(-)

commit c2cd9cdf5995843aad7b200b929db2969effc9d2  
Author: belyi <devnull@localhost>  
Date: Tue May 17 15:03:58 2005  
+0000

Update simple.py to catch errors.

pyme/examples/simple.py | 17 ++++++++-----  
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44  
Author: belyi <devnull@localhost>  
Date: Tue May 17 01:18:23 2005 +0000

Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile | 1 +  
pyme/examples/signverify.py | 1 +  
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198  
Author: belyi <devnull@localhost>  
Date: Wed Apr 27 21:37:06 2005 +0000

Added pygpa example.

pyme/debian/changelog | 3 +-  
pyme/examples/pygpa.glade | 5546 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++  
pyme/examples/pygpa.py | 1459 ++++++++  
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35  
Author: belyi <devnull@localhost>  
Date: Thu Apr 21 15:17:51 2005 +0000

Change version to 0.7.0 due to the change in license.

pyme/debian/changelog  
| 2 +-  
pyme/pyme/version.py | 2 +-  
2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b6ba1e30d8339  
Author: belyi <devnull@localhost>  
Date: Thu Apr 21 03:53:12 2005 +0000

Changed license on PyMe from GPL to LGPL.  
PyMe examples keep GPL license.

```

pyme/COPYING.LESSER | 510 ++++++
pyme/Makefile | 20 +-
pyme/debian/changelog | 4 +-
pyme/debian/copyright | 22 +-
pyme/gpgme-h-clean.py | 16 ++
pyme/gpgme.i | 20 +-
pyme/helpers.c | 20 +-
pyme/helpers.h | 20 +-
pyme/pyme/__init__.py | 20 +-
pyme/pyme/callbacks.py | 20 +-
pyme/pyme/constants/data/encoding.py | 20 +-
pyme/pyme/constants/event.py | 20 +-
pyme/pyme/constants/import.py | 20 +-
pyme/pyme/constants/keylist/mode.py | 20 +-
pyme/pyme/constants/md.py
 | 20 +-
pyme/pyme/constants/pk.py | 20 +-
pyme/pyme/constants/protocol.py | 20 +-
pyme/pyme/constants/sig/mode.py | 20 +-
pyme/pyme/constants/sigsum.py | 20 +-
pyme/pyme/constants/status.py | 20 +-
pyme/pyme/constants/validity.py | 20 +-
pyme/pyme/core.py | 20 +-
pyme/pyme/errors.py | 20 +-
pyme/pyme/util.py | 20 +-
pyme/pyme/version.py | 22 +-
pyme/setup.py | 20 +-
26 files changed, 761 insertions(+), 233 deletions(-)

```

commit 0d8aa0f6335cb1506a37085095ed45173b099a02

Author: belyi <devnull@localhost>

Date: Tue Apr 19 01:46:06 2005 +0000

Added `__hash__` and `__eq__` methods to `GpgmeWrapper` to allow both `Context()` and `Data()` to be used as a dictionary key.

Changed `core.wait()` function to always return a tuple. On timeout now it returns `(0, None)` instead of just `None`. Plus, return context is now a

`Context()` object instead of a wrapper return by underlying `gpgme`.

```

pyme/helpers.c | 1 -
pyme/pyme/core.py | 25 ++++++
pyme/pyme/util.py | 9 ++++++
3 files changed, 24 insertions(+), 11 deletions(-)

```

commit 63ff6d10637be1dcbcd78c939ac1ef1ac30b1024

Author: belyi <devnull@localhost>

Date: Wed Apr 6 04:58:40 2005 +0000

Made hook parameter optional in passphrase\_cb and progress\_cb.  
Allowed None for callbacks to unset ones set previously.  
Removed cleanup of exception in callbacks - now just retrieve the error code.  
Added prev\_bad parameter in passphrase\_cb since it can be used in  
change password protocols.  
Updated examples to follow new sets of arguments in callbacks  
Updated op\_edit to check if passed key is None (otherwise gpgme dumps core)  
God rid of annoying warning "function declaration isn't a prototype" in  
helpers.c and helpers.h by changing from () to (void) list of arguments.

```
pyme/debian/changelog | 10 +++++---
pyme/examples/signverify.py | 2 +-
pyme/examples/t-edit.py | 2 +-
pyme/gpgme.i | 18 ++++++++-----
pyme/helpers.c | 60 ++++++++-----
pyme/helpers.h | 4 +--
pyme/pyme/callbacks.py | 6 +++--
pyme/pyme/core.py | 47 ++++++++-----
pyme/pyme/errors.py | 2 +-
9 files changed, 96 insertions(+), 55 deletions(-)
```

commit 8f0ab8138c7aa190936376ccb33bb09c64d6f1

Author: belyi <devnull@localhost>

Date: Thu Mar 31 23:50:59 2005 +0000

Added exception handling in passphrase\_cb and edit\_cb. If GPGMEEError  
exception is thrown in those callbacks it will be converted into its  
core representation and return as an error code to the caller.  
On all other exceptions error code will be GPG\_ERR\_GENERAL.

```
pyme/Makefile | 1 +
pyme/debian/changelog | 8 ++++++++
pyme/gpgme.i | 20 ++++++++-----
pyme/helpers.c | 51
+++++++-----
pyme/helpers.h | 3 +++
5 files changed, 71 insertions(+), 12 deletions(-)
```

commit 9903d1fb11231e7e3d920e58d1ecb674c5988b07

Author: belyi <devnull@localhost>

Date: Thu Mar 31 05:12:15 2005 +0000

Remove workaround from Context.wait() method since the bug report and  
patch fixing gpgme\_wait's behavior is sent to GPMGE developers already.  
Added errorcheck into op\_edit() so that it can report an error.

pyme/pyme/core.py | 10 +++++-----  
1 file changed, 5 insertions(+), 5 deletions(-)

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562

Author: belyi <devnull@localhost>

Date: Sat Mar 26 19:44:18 2005 +0000

Updated version number to 0.6.2 in version.py  
Added examples/\*.glade files into documentation package.

pyme/debian/examples | 1 +  
pyme/pyme/version.py | 2 +-  
2 files changed, 2 insertions(+), 1 deletion(-)

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab

Author: belyi <devnull@localhost>

Date: Sat Mar

26 19:31:14 2005 +0000

Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

pyme/debian/changelog | 5 ++++-  
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174ffd038fe7e4406b591

Author: belyi <devnull@localhost>

Date: Sat Mar 26 19:25:36 2005 +0000

Added handling of right mouse button click.  
Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++  
pyme/examples/PyGtkGpgKeys.py | 30 ++++++-----  
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204fb8527a54d253e5847e7

Author: belyi <devnull@localhost>

Date: Sat Mar 26 18:11:11 2005 +0000

Added another column indicating if a key has a secret part.  
Automated generation of the View menu from the view field of the KeyColumn class.

pyme/examples/PyGtkGpgKeys.glade | 93 +-----  
pyme/examples/PyGtkGpgKeys.py | 74  
+++++-----  
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a  
Author: belyi <devnull@localhost>  
Date: Sat Mar 26 16:45:13 2005 +0000

Small change to the way gtk.TreeModel object is used.

pyme/examples/PyGtkGpgKeys.py | 21 ++++++-----  
1 file changed, 10 insertions(+), 11 deletions(-)

commit 7078db75cef4c1fd70cf03e37172bdb4f933fd1b  
Author: belyi <devnull@localhost>  
Date: Fri Mar 25 23:33:06 2005 +0000

Use more comprehensible error reporting since gpgme\_strerror\_r returns None all the time.

pyme/pyme/errors.py | 6 +++--  
1 file changed, 3 insertions(+), 3 deletions(-)

commit 151213f4344d9984975721440af07de09e3df61c  
Author: belyi <devnull@localhost>  
Date: Fri Mar 25 04:30:17 2005 +0000

Improved PyGtkGpgKeys example to manage owner\_trust on keys.  
Added another example inter-edit.py which is just a helper to write scripts for Context.op\_edit() command.

pyme/examples/PyGtkGpgKeys.glade  
| 78 ++++++  
pyme/examples/PyGtkGpgKeys.py | 68 ++++++-----  
pyme/examples/inter-edit.py | 54 ++++++  
pyme/examples/t-edit.py | 18 ++++++  
4 files changed, 212 insertions(+), 6 deletions(-)

commit fc7235af217bcee5231ce7fbd7f234712d5ad3b0  
Author: belyi <devnull@localhost>  
Date: Fri Mar 25 00:30:39 2005 +0000

Updated PyGtkGpgKeys example to include import, export and reload functionality. Also added ability to remove number of keys simultaneously. Rearranged how KeyColumn is used to avoid unnecessary sorts and duplication of information in different parts of the code.

pyme/examples/PyGtkGpgKeys.glade | 86 ++++++--  
pyme/examples/PyGtkGpgKeys.py | 332 ++++++-----  
2 files changed, 325 insertions(+), 93 deletions(-)

commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912

Author: belyi <devnull@localhost>

Date: Thu Mar 24 05:51:03

2005 +0000

Added example of PyGTK+ and PyMe integration.

For now it does only simple things - listing, deleting, and generating keys.

pyme/examples/PyGtkGpgKeys.glade | 1321 ++++++

pyme/examples/PyGtkGpgKeys.gladep | 8 +

pyme/examples/PyGtkGpgKeys.py | 424 ++++++

3 files changed, 1753 insertions(+)

commit 59e23f32c3b46413c9ec09e23e1a385a110fb103

Author: belyi <devnull@localhost>

Date: Thu Mar 24 05:44:58 2005 +0000

Added wait method Context class which handles asynchronous calls a little bit better than the one generated by SWIG.

pyme/debian/changelog | 7 ++++++

pyme/gpgme.i | 1 +

pyme/pyme/core.py | 40 ++++++

3 files changed, 48 insertions(+)

commit 4c1b5259e4985df2cba0ae4fc09f12cd94603a75

Author: belyi <devnull@localhost>

Date: Tue Mar 22 18:29:31 2005 +0000

Added correct handling of Context.op\_edit() method.

Added example/t-edit.py showing usage for this method.

Output of this example should match output of the tests/gpg/t-edit from the GPGME test suite.

Remove unused static function from helpers.c

pyme/examples/t-edit.py | 38 ++++++

pyme/gpgme.i | 36 ++++++

pyme/helpers.c | 36 -----

pyme/pyme/core.py | 5 ++++-

4 files changed, 78 insertions(+), 37 deletions(-)

commit dc587e215283bfef2dd594f86a7b2945f74f5155

Author: belyi <devnull@localhost>

Date: Sat Mar 19 01:43:59 2005 +0000

Update changelog to include note about deprecated function in 0.6.1 release



pyme/debian/changelog | 3 ++-  
pyme/examples/encrypt-to-all.py | 3 +--  
2 files changed, 3 insertions(+), 3 deletions(-)

commit 86de4b3ad777f980ccf7ba3462c85bbe1787d1fd

Author: belyi <devnull@localhost>

Date: Sat Mar 19 01:40:07 2005 +0000

Remove deprecated functions from helpers.[ch]  
Use gpgme-h-clean.py  
to remove deprecated functions and typedefs from  
the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile | 4 +++-  
pyme/gpgme-h-clean.py | 26 ++++++  
pyme/helpers.c | 8 -----  
pyme/helpers.h | 2 --  
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcbd0d73c628c4d7717928a766c3b58f0aa

Author: belyi <devnull@localhost>

Date: Fri Mar 18 22:15:52 2005 +0000

Update copyright and author values in pyme/version.py  
Create rules to build distribution files - one full and one without  
debian bits.

pyme/Makefile | 28 ++++++  
pyme/pyme/version.py | 12 ++++++  
2 files changed, 28 insertions(+), 12 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621

Author: belyi <devnull@localhost>

Date: Fri Mar 18 19:09:33 2005 +0000

Added package building for python2.4

Updated copyright notes to include myself and avoid confusion who's the  
maintainer.

In John's own words: "I'd prefer to just step out of the picture".

Jonh's copyright notice left intact.

pyme/Makefile | 6 +++-  
pyme/debian/changelog | 7 ++++++  
pyme/debian/control | 30 ++++++  
pyme/debian/copyright | 10 ++++++  
pyme/debian/rules | 4 +++++  
pyme/debian/setup.cfg-2.4 | 8 ++++++

```
pyme/examples/genkey.py | 4 +++-
pyme/gpgme.i | 4 +++-
pyme/helpers.c | 4 +++-
pyme/helpers.h | 4 +++-
pyme/pyme/__init__.py | 4 +++-
pyme/pyme/callbacks.py | 4 +++-
pyme/pyme/constants/data/encoding.py | 4 +++-
pyme/pyme/constants/event.py | 4 +++-
pyme/pyme/constants/import.py | 4 +++-
pyme/pyme/constants/keylist/mode.py | 4 +++-
pyme/pyme/constants/md.py | 4 +++-
pyme/pyme/constants/pk.py
| 4 +++-
pyme/pyme/constants/protocol.py | 4 +++-
pyme/pyme/constants/sig/mode.py | 4 +++-
pyme/pyme/constants/sigsum.py | 4 +++-
pyme/pyme/constants/status.py | 4 +++-
pyme/pyme/constants/validity.py | 4 +++-
pyme/pyme/core.py | 4 +++-
pyme/pyme/errors.py | 4 +++-
pyme/pyme/util.py | 4 +++-
pyme/pyme/version.py | 2 +-
pyme/setup.py | 3 +-
28 files changed, 96 insertions(+), 54 deletions(-)
```

commit 6dbbb252771133724b2879ed6d767cd708196dae

Author: belyi <devnull@localhost>

Date: Fri Mar 18 18:04:35 2005 +0000

Remove the note about gpgme.i to be generated - it's been the primary source for some time.

```
pyme/gpgme.i | 6 -----
```

1 file changed, 6 deletions(-)

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759

Author: belyi <devnull@localhost>

Date: Fri May 7 18:31:22 2004 +0000

Added my copyright in genkey.py since there's enough changes made.

Updated signverify to use only keys generated by genkey.py, to check that keys added to singers are able to sign and to check that the list of signers is not empty. The last check is necessary to prevent signing with the key of the user running signverify.py script.  
Added delkey.py script to delete keys generated by genkey.py  
Added exportimport.py example for key export/import.

```
pyme/examples/delkey.py | 29 ++++++
pyme/examples/exportimport.py | 76 ++++++
pyme/examples/genkey.py | 6 +-
pyme/examples/signverify.py | 18 +++++
4 files changed, 119 insertions(+), 10 deletions(-)
```

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b

Author: belyi <devnull@localhost>

Date: Tue May 4 17:34:15 2004 +0000

Added examples/signverify.py for unattended sing/verify.  
Updated examples/genkey.py to work correctly.  
Updated gpgme.i to allow None as a value for gpgme\_data\_t

```
pyme/examples/genkey.py | 14 ++-----
pyme/examples/signverify.py | 72 ++++++
pyme/gpgme.i | 21 ++++++
3 files changed, 87 insertions(+), 20 deletions(-)
```

commit ba45931abf530ab89ead46d7233ff1b62b629a18

Author: belyi <devnull@localhost>

Date: Thu Apr 8 16:15:09 2004 +0000

Ensure that we support only python2.2 and up. :-)  
Use generators in core.Context class which makes pyme.aux obsolete  
Remove importing future nested\_scopes since they are standard starting  
with python2.2

```
pyme/pyme/__init__.py | 5 +----
pyme/pyme/aux.py | 56 -----
pyme/pyme/core.py | 15 ++++++
pyme/pyme/errors.py | 1 -
pyme/pyme/util.py | 2 +-
5 files changed, 15 insertions(+), 64 deletions(-)
```

commit 4e9be5a55ecffa4da7ad5c192cc892eddaaa9586

Author: belyi <devnull@localhost>

Date: Sun Mar 21 03:53:30 2004 +0000

Small change to index.html  
Added clean: rule to the Makefile

```
pyme-web/Makefile | 3 +++
pyme-web/index.html | 6 +----
2 files changed, 6 insertions(+), 3 deletions(-)
```

commit 2efb95176f4edf56ed61c9ac0c3aa09c56534df0

Author: belyi <devnull@localhost>

Date: Sun Mar 21 03:00:32 2004 +0000

Added Makefile rules for pyme module installation.

pyme/Makefile | 5 ++++-

1 file changed, 4 insertions(+), 1 deletion(-)

commit 2b83d5d8b513029cc3e54f2fa502ccc85618104b

Author: belyi <devnull@localhost>

Date: Sun Mar 21 02:29:54 2004 +0000

Decorative change.

pyme/pyme/aux.py | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433fce59712204

Author: belyi <devnull@localhost>

Date: Sun Mar 21 02:25:55 2004 +0000

Added RCS Id: tags

pyme/Makefile | 1 +  
pyme/examples/encrypt-to-all.py | 3 +-  
pyme/examples/genkey.py | 3 +-  
pyme/examples/sign.py | 3 +-  
pyme/examples/simple.py  
| 3 +-  
pyme/gpgme.i | 1 +  
pyme/helpers.c | 1 +  
pyme/helpers.h | 1 +  
pyme/pyme/\_\_init\_\_.py | 1 +  
pyme/pyme/aux.py | 1 +  
pyme/pyme/callbacks.py | 1 +  
pyme/pyme/constants/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/data/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/data/encoding.py | 1 +  
pyme/pyme/constants/event.py | 1 +  
pyme/pyme/constants/import.py | 1 +  
pyme/pyme/constants/keylist/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/keylist/mode.py | 1 +  
pyme/pyme/constants/md.py | 1 +  
pyme/pyme/constants/pk.py | 1 +  
pyme/pyme/constants/protocol.py | 1 +  
pyme/pyme/constants/sig/\_\_init\_\_.py | 2 ++  
pyme/pyme/constants/sig/mode.py | 1 +  
pyme/pyme/constants/sigsum.py | 1 +  
pyme/pyme/constants/status.py | 1 +

pyme/pyme/constants/validity.py | 1  
+  
pyme/pyme/core.py | 1 +  
pyme/pyme/errors.py | 1 +  
pyme/pyme/util.py | 1 +  
pyme/pyme/version.py | 2 ++  
30 files changed, 39 insertions(+), 4 deletions(-)

commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86

Author: belyi <devnull@localhost>

Date: Sun Mar 21 02:07:36 2004 +0000

Added Id: RCS tags to all files.

pyme-web/Makefile | 2 ++  
pyme-web/index.html | 3 +-  
2 files changed, 4 insertions(+), 1 deletion(-)

commit 6aea2426beaaa8c43e6f2310a37a2737c0c3a1b5

Author: belyi <devnull@localhost>

Date: Sun Mar 21 01:50:55 2004 +0000

Update example on the init pyme.html page to match simple.py example.  
Fix core.py to use getcode() instead of getvalue() method of the exception.

pyme/pyme/\_\_init\_\_.py | 22 ++++++-----  
pyme/pyme/core.py | 4 +---  
2 files changed, 16 insertions(+), 10 deletions(-)

commit dee337455ffd624d3f83e1c159c4bb2cefc692c9

Author: belyi <devnull@localhost>

Date:

Sat Mar 20 20:32:29 2004 +0000

Added Makefile to simplify publishing web files.

pyme-web/Makefile | 7 ++++++  
1 file changed, 7 insertions(+)

commit af7129baa8260697d85c2ddb434562e8a80b62d8

Author: belyi <devnull@localhost>

Date: Sat Mar 20 20:15:53 2004 +0000

Added minimum of formatting and SF icon.

pyme-web/index.html | 18 ++++++-----  
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcbf99cee796b51667b04d8961e390edde87

Author: belyi <devnull@localhost>

Date: Sat Mar 20 18:30:09 2004 +0000

Initial revision

pyme-web/index.html | 33 +++++++++++++++++++++++++++++++++++++  
1 file changed, 33 insertions(+)

commit 1c51644b3d0b6611422d971758e35f303d2ad5df

Author: belyi <devnull@localhost>

Date: Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.

pyme/pyme/\_\_init\_\_.py | 27 ++++++-----  
1 file changed, 12 insertions(+), 15 deletions(-)

commit b2d31b0bfbffdf5247d6db4e3c95140cc1b1f19

Author:

belyi <devnull@localhost>

Date: Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.

Updated debian/control to remove dependency on python-xml package since there's none now.

Move example files from 'doc' into separate control file.

Update debian/rules to build documentation from \*.py files and to exclude CVS directories from the installation.

pyme/Makefile | 26 ++-----  
pyme/debian/control | 8 +--  
pyme/debian/docs | 1 -  
pyme/debian/ex.package.doc-base | 22 -----  
pyme/debian/examples | 1 +  
pyme/debian/manpage.1.ex | 60 -----  
pyme/debian/manpage.sgml.ex | 152 -----  
pyme/debian/rules | 12 +++  
8 files changed, 15 insertions(+), 267 deletions(-)

commit 1b517dd9b82a433499b4696b06d94d756cd36e53

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:59:15 2004 +0000

Remove doc/gpgme

directory containing GPGME documentation since this belongs

to a different project. Need to add reference in our documentation.

```
pyme/doc/gpgme/fdl.texi | 402 -----
pyme/doc/gpgme/gpgme.texi | 3372 -----
pyme/doc/gpgme/gpl.texi | 397 -----
pyme/doc/gpgme/version.texi | 4 -
4 files changed, 4175 deletions(-)
```

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:45:03 2004 +0000

Change debian/rules to generate files by swig during build and to cleanup those files on 'clean' rule.

Plus, leave generated gpgme\_wrap.c in the root directory instead of moving it into subdirectory 'generated'.

```
pyme/Makefile | 8 +++-----
pyme/debian/rules | 3 +-
pyme/setup.py | 2 +-
3 files changed, 6 insertions(+), 7 deletions(-)
```

commit 545b3d90d445c5c78e8d72b2c1780863e02c789a

Author: belyi <devnull@localhost>

Date: Sat Mar 20 02:18:01 2004 +0000

Initial revision

```
pyme/COPYING | 340 +++++
pyme/ChangeLog | 802 ++++++++
pyme/Makefile | 79 +
pyme/debian/README.Debian | 6 +
pyme/debian/changelog | 19 +
pyme/debian/control | 68 +
pyme/debian/copyright | 27 +
pyme/debian/dirs | 2 +
pyme/debian/docs | 2 +
pyme/debian/ex.package.doc-base | 22 +
pyme/debian/manpage.1.ex | 60 +
pyme/debian/manpage.sgml.ex | 152 ++
pyme/debian/postinst.ex | 48 +
pyme/debian/postrm.ex | 38 +
pyme/debian/preinst.ex | 44 +
pyme/debian/prerm.ex | 39 +
pyme/debian/rules | 130 ++
pyme/debian/setup.cfg-2.2 | 8 +
pyme/debian/setup.cfg-2.3 | 8 +
pyme/doc/gpgme/fdl.texi | 402 +++++
pyme/doc/gpgme/gpgme.texi | 3372 ++++++
```

```

pyme/doc/gpgme/gpl.texi | 397 +++++
pyme/doc/gpgme/version.texi | 4 +
pyme/examples/encrypt-to-all.py | 63 +
pyme/examples/genkey.py | 55 +
pyme/examples/sign.py | 28 +
pyme/examples/simple.py | 44 +
pyme/gpgme.i | 191 ++
pyme/helpers.c | 139 ++
pyme/helpers.h | 29 +
pyme/pyme/__init__.py | 134 ++
pyme/pyme/aux.py | 55 +
pyme/pyme/callbacks.py | 45 +
pyme/pyme/constants/__init__.py | 2 +
pyme/pyme/constants/data/__init__.py | 2 +
pyme/pyme/constants/data/encoding.py | 19 +
pyme/pyme/constants/event.py | 19 +
pyme/pyme/constants/import.py | 19 +
pyme/pyme/constants/keylist/__init__.py
| 2 +
pyme/pyme/constants/keylist/mode.py | 19 +
pyme/pyme/constants/md.py | 19 +
pyme/pyme/constants/pk.py | 19 +
pyme/pyme/constants/protocol.py | 19 +
pyme/pyme/constants/sig/__init__.py | 2 +
pyme/pyme/constants/sig/mode.py | 19 +
pyme/pyme/constants/sigsum.py | 19 +
pyme/pyme/constants/status.py | 19 +
pyme/pyme/constants/validity.py | 19 +
pyme/pyme/core.py | 367 +++++
pyme/pyme/errors.py | 46 +
pyme/pyme/util.py | 61 +
pyme/pyme/version.py | 39 +
pyme/setup.py | 60 +
53 files changed, 7642 insertions(+)

```

commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d

Author: root <devnull@localhost>

Date: Fri Mar 19 14:12:30 2004 +0000

initial checkin

```

CVSROOT/checkoutlist | 13 ++++++
CVSROOT/commitinfo | 15 ++++++
CVSROOT/config
| 21 ++++++
CVSROOT/cvswrappers | 19 ++++++
CVSROOT/editinfo | 21 ++++++
CVSROOT/loginfo | 26 ++++++

```



```
CVSROOT/modules | 26 ++++++
CVSROOT/notify | 12 ++++++
CVSROOT/rcsinfo | 13 ++++++
CVSROOT/taginfo | 20 ++++++
CVSROOT/verifysg | 21 ++++++
```

11 files changed, 207 insertions(+)

-----BEGIN PGP PUBLIC KEY BLOCK-----

```
mQENBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAttrV+REqF/o80dvYcdLvRsV21pvncZz/HXLU1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJIO1s0N2c
PSht98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYN8SFC+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqpRjLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxbvNELIBYICfABEBAAAG0EHRlc3RAZXhhbXBsZS5v
cmeJAVQEEwEIAD4WIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUcWuwoSQIbAwUJA8Jn
AAULCQgHAgYVCgkICwIEFgIDAQIeAQIXgAAKCRajAWNe7/DLBf9kB/wOQ/S60HGw
Fq07W9N01HWULyhHKoMmcHL6rfZ64oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6
kaBe+wF6Kqir6udFSBW9rPcFg6/VZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rN
GkYo1JCBR0XdRjYCSX3yB4TWv/eXnZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k7
0DevQeBsv+UjVXjWpNTZmPbvDnd995uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6U
unOf9Rlp1oMzdxMool/d1MICxg2h3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ
1J8Nsv87SZeEuQENBFrsKEkBCADjoEBHg/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6
yE+x2hk5FoQCajxKa/d4AVxOnJpdwhAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0p
O7bgAiZxkA6RHxtNqhpPnPQoXvUzkzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/
8i9Taz67pdZwuJjac8qBuJHjzAo1bjYctFYUSG5pbmMQyNLySzziNkFa4DajODlt
3RuqVGP316Fk+Sy2+60tC/HIX8jgMyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyL
UGKU+L8cB2g1PGGp2biBFWqZbudZoyRBet/0yH/zirBdQJw1ABEBAAAGJATwEGAEI
ACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUcWuwoSQIbDAUJA8JnAAAKCRajAWNe
7/DLBfOpCACPP5hBuUWngu2Hqvg+tNiujsiYzId3MffFxEk3CbXeHcJ5F32NDJ9
PYCnra4L8wSv+NZt9gIa8IFwoFSFQCjzH7KE86XcV3MhfdJTnb/+9CR7Jq3e/4Iy
0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02Lkr+2Cc/Q
k6H+vlNOHGRgnpI/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe23nntMSD
A+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t9Mmd7bM1
+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
```

=QyY6

-----END

PGP PUBLIC KEY BLOCK-----

Using gpgme.js

-----

At first, make sure that the environment you want to use gpgme.js in has access and permissions for nativeMessaging, and gpgme-json installed. For details, see the README.

The library itself is started via the { @link init } method. This will test the nativeMessaging connection, and then resolve into an Object offering the top level API:

\* [encrypt]{ @link GpgME#encrypt }

```

* [decrypt]{ @link GpgME#decrypt}
* [sign]{ @link GpgME#sign}
* [verify]{ @link GpgME#verify}
* [Keyring]{ @link GPGME_Keyring}

```

...

```

gpgmejs.init()
 .then(function(GPGME) {
 // using GPGME
 }, function(error){
 // error handling;
 })

```

...

All methods that require communication with nativeMessaging are asynchronous, using Promises. Rejections will be instances of { @link GPGME\_Error }.

An exception are Keys, which can be initialized in a 'sync' mode, allowing them to be cached and used synchronously until manually refreshed.

## Keyring and Keys

-----

The gnupg keys can be accessed via the [Keyring]{ @link GPGME\_Keyring }.

The Keyring offers the methods for accessing information on all Keys known to gnupg.

**\*\*Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.\*\***

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

```

* [getKeysArmored]{ @link GPGME_Keyring#getKeysArmored}
* [getKeys]{ @link GPGME_Keyring#getKeys}
* [getDefaultKey]{ @link GPGME_Keyring#getDefaultKey}
* [generateKey]{ @link GPGME_Keyring#generateKey}
* [deleteKey]{ @link GPGME_Keyring#deleteKey}

```

\input texinfo @c -\*- texinfo -\*-

@c %\*\*start of header

@setfilename what-is-new.info

@settitle What's New in the GPGME Python Bindings and Documentation

@documentencoding utf-8

@documentlanguage en

@c %\*\*end of header

@finalout  
@titlepage  
@title What's New in the GPGME Python Bindings and Documentation  
@author Ben McGinnes  
@end titlepage

@contents

@ifnottex  
@node Top  
@top What's New in the GPGME Python Bindings and Documentation  
@end ifnottex

@menu  
\* What's New::

@detailmenu  
--- The Detailed Node Listing ---

What's New

\* New in GPGME 1130::

@end detailmenu  
@end menu

@node What's New  
@chapter What's New

@multitable {aaaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}  
@item Version:  
@tab 0.0.1  
@item GPGME Version:  
@tab 1.13.0  
@item Author:  
@tab Ben McGinnes <ben@gnupg.org>  
@item Author GPG Key:  
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D  
@item Language:  
@tab Australian English, British English  
@item xml:lang:  
@tab en-AU, en-GB, en  
@end multitable

Last time the most  
obviously new thing was adding the @emph{What's New}  
section to the HOWTO. Now it's moving it out of the HOWTO.

@menu

\* New in GPGME 1130::

@end menu

@node New in GPGME 1130

@section New in GPGME 1130

Additions since GPGME 1.12.0 include:

@itemize

@item

Moving the @emph{What's New} section out of the basic @uref{gpgme-python-howto.org, HOWTO} document and

into its own file so as to more readily include other documents

beyond that HOWTO.

@item

Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.

@item

Added @samp{gpg.version.versionintlist} to make it easier for Python developers to check for a specific version number, even with beta versions (it will drop the "-betaN" part).

@item

Added expanded detail on issues pertaining to installing for Windows users.

@item

Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.

@item

Added documentation on maintenance mode and what changes can be made to the code when in that status. Essentially that boils down to bug fixes only and no feature requests.

@item

The import-keys-hkp.py example script, which uses the @samp{hkp4py} module to search the SKS servers for a key, has been tightened up to search for both hexadecimal key IDs and user ID strings with reduced chance of unnecessary repetition. There may still be some repetition if a key includes a user ID matching the hexadecimal value of a key ID.

@end itemize

@bye

;;; gpgme-grovel.lisp

;;; This file is part of GPGME-CL.

;;;

;;; GPGME-CL is free software; you can redistribute it and/or modify it

;;; under the terms of the GNU General Public License as published by

;;; the Free Software Foundation; either version 2 of the License, or

```
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
```

```
(in-package :gpgme)
```

```
(include "errno.h" "sys/types.h")
```

```
(constant (+ebadf+ "EBADF"))
```

```
(ctype off-t "off_t")
```

```
(ctype size-t "size_t")
```

```
(ctype ssize-t "ssize_t")
```

```
(cvar ("errno" *errno*) :int)
```

```
(21:protected-private-key(3:elg(1:p129:W#} }l;;m>
```

```
;4YV$Qg
```

```
LoLy~*Tru*+ID8"-9,:17^g*({ #7)(1:g1:)(1:y128:2o62,Tj/
```

```
rRi3sSS iCAYNYbVtAHKi7(UPp)?Od{ 'R^f)(9:protected25:openpgp-s2k3-sha1-aes-
```

```
cbc((4:sha18:fw`E7:5242880)16:aqR)192:5f1a-`{^EV699WoB\,:Rs1*W6Lu iZ
```

```
:=ZqURM47;pA3#DL
```

```
so8O)Th^P@IP0&.DR;"rkN7)(12:protected-at15:20101008T070216)))
```

For a list of the authors of the source code of GPGME, please see the file AUTHORS. The following people supported GPGME development in various ways (for example by finding bugs or giving advice), and we want to thank them for their help. If we forgot you, please let us know.

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# This is a template. The dist target uses it to create the real file.

Summary: GPGME - GnuPG Made Easy

Name: gpgme

Version: 1.13.1

Release: 1

URL: <https://gnupg.org/gpgme.html>

Source: <https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz>

Group: Development/Libraries

Copyright: GPL

BuildRoot: %{\_tmppath}/%{name}-%{version}

BuildRequires: make

Prereq: /sbin/ldconfig /sbin/install-info

Requires: gnupg

%description

GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier for applications. It provides a High-Level Crypto API for encryption, decryption, signing, signature verification and key management.

%prep

%setup -q

%build

CFLAGS="\$RPM\_OPT\_FLAGS"; export CFLAGS

./configure --prefix=/usr

make

%install

rm -fr \$RPM\_BUILD\_ROOT

```

mkdir -p $RPM_BUILD_ROOT
make install prefix=$RPM_BUILD_ROOT/usr infodir=$RPM_BUILD_ROOT%{_infodir}
rm -f $RPM_BUILD_ROOT%{_infodir}/dir

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info % {_infodir}/gpgme.info.gz
% {_infodir}/dir
/sbin/install-info % {_infodir}/gpgme-python-howto.info.gz % {_infodir}/dir

%preun
if ["$1" = 0]; then
/sbin/install-info --delete % {_infodir}/gpgme.info.gz % {_infodir}/dir
/sbin/install-info --delete % {_infodir}/gpgme-python-howto.info.gz % {_infodir}/dir
fi

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) % {_bindir}/gpgme-config
%attr(0755,root,root) % {_libdir}/*gpgme.so*
%attr(0755,root,root) % {_libdir}/*gpgme.la
%attr(0644,root,root) % {_libdir}/*gpgme.a
% {_includedir}/gpgme.h
% {_datadir}/aclocal/gpgme.m4
% {_infodir}/gpgme.info*
% {_infodir}/gpgme-python-howto.info*

%changelog
* Sat Aug 30 2003 Robert Schiele <rschiele@uni-mannheim.de>
- % {_infodir}/dir is not packaged, remove to prevent checking failure
* Mon Jul 01 2002 Wojciech Polak <polak@lodz.pdi.net>
- initial specfile release for GPGME.

EOF

```

## 1.713 json-c 0.13.1-3.el8

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# 1.714 jsonschema 1.4.1

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## 1.716 minimatch 5.1.0

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# 1.718 builtins 5.0.1

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## 1.722 parse5-htmlparser2-tree-adapter 7.0.0

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## 1.726 tdb 1.46.5

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It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

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```

This is a Makefile stub which handles the creation of BSD shared
libraries.

In order to use this stub, the following makefile variables must be defined.

BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```



```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```

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Theodore Ts'o

23-June-2007

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

#### Activities

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part of  
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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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### 1.727.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1341437049\_1654776513.646622/0/socks-proxy-agent-7-0-0-tgz/package/README.md

## 1.728 libsemanage2 3.3-1build2

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## 1.729 gmp 6.2.1+dfsg-3ubuntu1

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hostname -- set the host name or show the host/domain name

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Upstream-Contact: Colin Watson <cjwatson@debian.org>

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## 1.738 libnettle6 3.7.3-1build2

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## 1.740 libseccomp 2.5.3-2ubuntu2

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## 1.741 findutils 4.8.0-1ubuntu3

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## 1.748 libtasn 4.18.0-4build1

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## 1.751 sysv-init 3.01-1ubuntu1

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## 1.752 util-linux 2.37.2-4ubuntu3

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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# 1.755 sed 4.8-1ubuntu2

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## 1.757 bash 5.1-6ubuntu1

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: \*

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/\* run-parts: run a bunch of scripts in a directory

\*

\* Debian run-parts program

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/\* ischroot: detect if running in a chroot

\*

\* Debian ischroot program

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# 1.760 zstd 1.4.8+dfsg-3build1

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## 1.761 acl 2.3.1-1

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```
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```

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```
<program> Copyright (C) <year> <name of author>
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under certain conditions; type `show c' for details.
```

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# 1.763 grep 3.7-1build1

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it
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# 1.777 v8 8.4.371.23

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Written by: Philip Hazel  
Email local part: ph10  
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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations, which became  
Zope Corporation. In 2001, the Python Software Foundation (PSF, see  
<https://www.python.org/psf/>) was formed, a non-profit organization  
created specifically to own Python-related Intellectual Property.  
Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for  
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releases have also been GPL-compatible; the table below summarizes  
the various releases.

| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |

|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
| 2.1.3         | 2.1.2     | 2002     | PSF | yes |
| 2.2 and above | 2.1.1     | 2001-now | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD\_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
```

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

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--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```
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```

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```

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Theodore Ts'o  
23-June-2007

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```

```
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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file  
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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```
COPYING.other *- org *-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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\* Regular  
expression support

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1986 John Gilmore hoptoad!gnu  
1987 James A. Woods ames!jaw  
1993 Christopher Seiwald seiwald@vix.com  
2000, 2002 Christopher Seiwald <seiwald@perforce.com>  
2010 Steve Bennett <steveb@workware.net.au>  
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## 1.785 psl 1.9.0

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## 1.786 fetch-blob 3.2.0

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## 1.787 @types/whatwg-url 8.2.2

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```

#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```



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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
- + Copyright (C) Andrew Tridgell            1999-2005
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```

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```

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```

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Theodore Ts'o  
23-June-2007

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```

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This is the Debian GNU/Linux prepackaged version of the EXT2 file  
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
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## 1.797 npm-package-arg 9.1.0

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## THE BASIC LIBRARY FUNCTIONS

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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<https://github.com/bitinn/node-fetch>

## 1.811 normalize-package-data 4.0.1

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# 1.820 cracklib 2.9.6-3.4build4

## 1.820.1 Available under license :

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Version 2.1, February 1999

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Otherwise, if the work is a derivative of the Library, you may

distribute

the object code for the work under the terms of Section 6.

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d) If distribution of the work is made by offering access to copy

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
This package was debianized by Jean Pierre LeJacq  
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt  
<martin@piware.de> was the package's maintainer up to version  
2.7.19-1. The current maintainer is Jan Dittberner  
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Modifications: Added cronjob, configuration file, and man pages.

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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20

library to dictact to application writes what license they should be using.=  
=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

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> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt

the

> place of a

> library to dictact to application writes what license they should

> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would

like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <naln@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches

and a small

>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
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>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
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> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message

as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use  
nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct  
2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>



X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status:  
RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20

library to dictact to application writes what license they should be using.=

=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

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UMR Information Technology Fax: (573) 341-4216

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> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

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> library  
to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

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>> maintainers to get together with Alec in a conversation and come to a  
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In any case, I thank you both for working on sorting this out.

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
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-mike

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----  
From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id I1cOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## 1.821 @npmcli/query 1.2.0

### 1.821.1 Available under license :

<!-- This file is automatically added by @npmcli/template-oss. Do not edit. -->

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## 1.822 libnpmteam 4.0.4

### 1.822.1 Available under license :

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## 1.823 libnpmversion 3.0.7

### 1.823.1 Available under license :

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## 1.824 libnpmsearch 5.0.4

### 1.824.1 Available under license :

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## 1.825 bin-links 3.0.3

### 1.825.1 Available under license :

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## 1.826 npm-pick-manifest 7.0.2

## 1.826.1 Available under license :

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## 1.827 libnpmaccess 6.0.4

### 1.827.1 Available under license :

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## 1.828 libnpmublish 6.0.5

### 1.828.1 Available under license :

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## 1.829 @npmcli/config 4.2.2

### 1.829.1 Available under license :

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## 1.830 ini 3.0.1

### 1.830.1 Available under license :

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Written by: Philip Hazel

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```
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That's all there is to it!

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```
COPYING.other -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.839 gzip 1.10-4ubuntu4.1

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The 40 level includes words from Alan's 3esl list found in version 4.0 of his 12dicts package. Like his other stuff the 3esl list is also in the public domain.

The 50 level includes Brian's frequency class 1, words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words from the YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

The ENABLE master word list, WORD.LST, is herewith formally released

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The 95 level includes the 354,984 single words, 256,772 compound words, 4,946 female names and the 3,897 male names, and 21,986 names from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

Accent information was taken from UKACD.

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The author has also released the source code to "anagram" and "multi" (multiple word anagram) into the Public Domain. He had previously posted these utilities on the "alt.sources" newsgroup in shar archive form.

Please feel free to use the word list and/or source code in your own projects. It is, in fact, the intent of the author that this package inspire word game software for the Linux platform. If you use any portion of YAWL, please, as a courtesy, give credit to its author.

# 1.853 zlib 1.2.11.dfsg-2ubuntu9.2

## 1.853.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
```

```
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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Mark Adler madler@alumni.caltech.edu

\*/

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\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c  
No license file was found, but licenses were detected in source scan.

/\* fitblk.c: example of fitting compressed output to a specified size  
Not copyrighted -- provided to the public domain  
Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c  
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\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3  
No license file was found, but licenses were detected in source scan.

/\* inftrees.c -- generate Huffman trees for efficient decoding  
\* Copyright (C) 1995-2017 Mark Adler  
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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c  
No license file was found, but licenses were detected in source scan.

/\* gzwrite.c -- zlib functions for writing gzip files  
\* Copyright (C) 2004-2017 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c  
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Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html  
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/\* uncompr.c -- decompress a memory buffer  
\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler



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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

No license file was found, but licenses were detected in source scan.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

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\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

No license file was found, but licenses were detected in source scan.

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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/\*

\* gzlog.c

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\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

## Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Guller Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

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\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved  
version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-  
1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

No license file was found, but licenses were detected in source scan.

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c  
No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
 * Copyright (C) 2004, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c  
No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h  
No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017
```

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@zip.org        madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950>

(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\* infback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

No license file was found, but licenses were detected in source scan.

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>



\* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast`

directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's `contrib/puff` directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

No license file was found, but licenses were detected in source scan.

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/\* inffast.h -- header to use inffast.c

\* Copyright (C) 1995-2003, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

No license file was found, but licenses were detected in source scan.

/\* gun.c -- simple gunzip to give an example of the use of inflateBack()

\* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler



\* For conditions of distribution and use, see copyright notice in zlib.h  
Version 1.7 12 August 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h  
No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib  
Version 1.1, February 14h, 2010  
part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1444731281\_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minizip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.
```

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
```

## 1.854 zlib 1.2.11.dfsg-2ubuntu1.5

### 1.854.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
```

\* For conditions of distribution and use, see copyright notice in zlib.h  
Version 1.7 12 August 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-----

\* Added ZIP64 support for unzip ( by Even Rouault )

\* Added ZIP64 support for zip ( by Mathias Svensson

)

\* Reverted some changed that Even Rouault did.

\* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.

\* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)

\* Added BZIP Compress method for zip

\* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

## Notes.

\* To be able to use BZip compression method in  
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

## License

-----  
Condition of use and distribution are the same than zlib :

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
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-----  
Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

No license file was found, but licenses were detected in source scan.

```
/* compress.c -- compress a memory buffer
```

```
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
```

No license file was found, but licenses were detected in source scan.

```
/* zconf.h -- configuration of the zlib compression library
```

```
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
```

```
1.2.11.dfsg/zconf.h.cmakein
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* gzlog.c
```

```
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
```

```
* For conditions of distribution and use, see copyright notice in gzlog.h
```

```
* version 2.2, 14 Aug 2012
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
```

```
1.2.11.dfsg/examples/gzlog.c
```

No license file was found, but licenses were detected in source scan.

```
/* deflate.c -- compress data using the deflation algorithm
```

```
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
```

No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):



```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
```

No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
```

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

No license file was found, but licenses were detected in source scan.

```
For conditions of distribution and use, see copyright notice in zlib.h
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
```

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
```

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license

also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

## Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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```
/* gzwrite.c -- zlib functions for writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
```

No license file was found, but licenses were detected in source scan.

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-2011, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
```

No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page <http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>
- \* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h. Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and

trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The `compress` and `deflate` functions produce data in the zlib format, which is different and incompatible with the `gzip` format. The `gz*` functions in zlib on the other hand use the `gzip` format. Both the zlib and `gzip` formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The `gzip` format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than `gzip`.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.



25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm.total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want

a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/> , which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more

efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
```

```
* Copyright (C) 1995-2005, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

No license file was found, but licenses were detected in source scan.

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c  
No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c  
No license file was found, but licenses were detected in source scan.

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c  
No license file was found, but licenses were detected in source scan.

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h  
No license file was found, but licenses were detected in source scan.

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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## Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

No license file was found, but licenses were detected in source scan.

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work

for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including

<http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.
```

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
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```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

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```
/* inffast.h -- header to use inffast.c
```

```
* Copyright (C) 1995-2003, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

No license file was found, but licenses were detected in source scan.

```
/* zran.c -- example of zlib/gzip stream indexing and random access
```

```
* Copyright (C) 2005, 2012 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

No license file was found, but licenses were detected in source scan.

```
/* inffback.c -- inflate using a call-back interface
```

```
* Copyright (C) 1995-2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
```

```
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
```

```
version 2.2, 14 Aug 2012
```

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

No license file was found, but licenses were detected in source scan.

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

# 1.855 libsemanage-common 2.9-9.el8\_6

## 1.855.1 Available under license :

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Version 2.1, February 1999

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# 1.856 hosted-git-info 5.2.1

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# 1.858 libnpmfund 3.0.5

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## 1.859 libnpmexec 4.0.14

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## 1.860 ws 8.11.0

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## 1.861 call-me-maybe 1.0.2

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## 1.871 http-cache-semantic 4.1.1

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## 1.872 zlib 1.2.11-21.el8\_7

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

```
Ty Coon, President of Vice
```

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7zXZF!t/o."w[7gp<G

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87I8.mhGl^eb\_X/UQKuB

)Cdk!B\_M\|tw|11np#\_(~\*'uM%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxYm+sS|11np#\_(~\*'uM%S61opMG`YfRXvY[R+t[ BS=)d

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# 1.874 liblzma 5.2.5-2ubuntu1

## 1.874.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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.

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.

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.  
[...]

.  
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> dos/README,  
windows/README

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Files: INSTALL NEWS PACKAGERS

windows/README-Windows.txt

windows/INSTALL-MinGW.txt

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changelog.gz (commit 975d8fd) explains:

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Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt\*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.

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2007-2010, Lasse Collin

Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,  
visibility.m4 serial 1 (gettext-0.15),  
Autoconf 2.52g

License: config-h  
configure.ac:

```
.
Author: Lasse Collin

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Bruno Haible.
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comments from Autoconf 2.52g:
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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.
```

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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=====

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# 1.875 libmount 2.37.2-4ubuntu3

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- \*/

## 1.877 libss 1.46.5-2ubuntu1.1

### 1.877.1 Available under license :

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It is part of the main e2fsprogs distribution, which can be found at:

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$BSDLIB_INSTALL_DIR/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$BSDLIB_INSTALL_DIR/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Theodore Ts'o  
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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# 1.879 libext2fs2 1.46.5-2ubuntu1.1

## 1.879.1 Available under license :

This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2  
file system consistency checker (e2fsck.static). The EXT2 utilities  
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
<card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

=====  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY;
for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider

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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o

23-June-2007

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Version 2, June 1991

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

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- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name
of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

## Activities

other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 1.880 libcom-err 1.46.5-2ubuntu1.1

## 1.880.1 Available under license :

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's/lib/;`"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```

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```
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```

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```
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```

```
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Theodore Ts'o  
23-June-2007

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```

```
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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# 1.881 logsave 1.46.5-2ubuntu1.1

## 1.881.1 Available under license :

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```
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```

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```
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```

```
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```

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```
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```

```
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Theodore Ts'o  
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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# 1.882 sysvinit-utils 3.01-1ubuntu1

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# 1.886 Isb-base 11.1.0ubuntu4

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Upstream-Name: LSB implementation package

Files: \*

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\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* Adler32.c -- compute the Adler-32 checksum of a data stream

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for an open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-----

\* Added ZIP64 support for unzip ( by Even Rouault )

- \* Added ZIP64 support for zip ( by Mathias Svensson )
- \* Reverted some changes that Even Rouault did.
- \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- \* Added BZIP Compress method for zip
- \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

## Notes.

- \* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minizip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the



people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README  
No license file was found, but licenses were detected in source scan.

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB ([www.gzip.org](http://www.gzip.org))

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c
No license file was found, but licenses were detected in source scan.
```

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.
```

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.
```

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.
```

```
/* gzappend -- command to append to a gzip file
```

Copyright (C) 2003, 2012 Mark Adler, all rights reserved

version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

```
/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
```

No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>
- \* win32/DLL\_FAQ.txt in the zlib distribution

4. `compress()` returns `Z_BUF_ERROR`.

Make sure that before the call of `compress()`, the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`.

Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU `autoconf` or `libtool` or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org`. Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to `gzputc`"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdf-lib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.



Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a

single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how `zlib` is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 33. Does `zlib` have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If `zlib` is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if `zlib` is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of `zlib`. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

### 34. Is there a Java version of `zlib`?

Probably what you want is to use `zlib` in Java. `zlib` is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of `zlib` written in the Java language, look on the `zlib` home page for links: <http://zlib.net/>.

### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

### 36. Valgrind (or some similar memory access checker) says that `deflate` is

performing a conditional jump that depends on an uninitialized value.  
Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

No license file was found, but licenses were detected in source scan.

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

/\* gzlog.h

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/\* gzwrite.c -- zlib functions for writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

No license file was found, but licenses were detected in source scan.

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

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See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-  
1.2.11.dfsg/contrib/minizip/unzip.c

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/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

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-----  
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-----

## Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/msdos/Makefile.dj2

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
```

```
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

No license file was found, but licenses were detected in source scan.

```
/* inffast.h -- header to use inffast.c
```

```
* Copyright (C) 1995-2003, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

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Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

No license file was found, but licenses were detected in source scan.

```
/* inflate.h -- internal inflate state definition
```

```
* Copyright (C) 1995-2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
```

No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
```

```
* Copyright (C) 2004, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
```

No license file was found, but licenses were detected in source scan.

```
/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
```

No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
```

No license file was found, but licenses were detected in source scan.

```
/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1559989463_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
```

No license file was found, but licenses were detected in source scan.

```
*/ gzjoin -- command to join gzip files into one gzip file
```

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/\* infback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c  
No license file was found, but licenses were detected in source scan.

/\* compress.c -- compress a memory buffer  
\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c  
No license file was found, but licenses were detected in source scan.

/\* zutil.c -- target dependent utility functions for the compression library  
\* Copyright (C) 1995-2017 Jean-loup Gailly  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c  
No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib  
Version 1.1, February 14h, 2010  
part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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-----  
Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1559989463\_1675946139.030622/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

## 1.890 libcrypt 1:4.4.27-1

### 1.890.1 Available under license :

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Version 2.1, February 1999

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## 1.891 diffutils 1:3.8-0ubuntu2

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

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## 1.894 attr 1:2.5.1-1build1

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```

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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Any executables containing that work also fall under Section 6,

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```
COPYING.other -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular  
expression support

regexp/jimregexp.[ch]:

Originally:

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Written by Henry Spencer. Not derived from licensed software.

Subsequently modified by:

1986 John Gilmore hoptoad!gnu

1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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## 1.908 libxcb 1.11.1-1ubuntu1

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```
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```
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## 1.919 gobject-introspection 1.56.1-1.el8



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Ty Coon, President of Vice

That's all there is to it!  
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:



CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE

OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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University of Missouri - Rolla Phone: (573) 341-6679  
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> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
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Re: [Cracklib-devel] cracklib license

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In any case, I thank you both for working on sorting this out.

Cheers,

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Attachments: Message as HTML

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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This approval was carried out in email discussions in 2005, and has been reconfirmed

as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use  
nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct  
2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status:  
RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
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by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
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Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>

Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
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> in the repository and clean up the repository/tarballs? I have all the  
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```

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```
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```

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Version 3, 29 June 2007

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# 1.928 libsemanage-common 3.3-1build2

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Any executables

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Ty Coon, President of Vice

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Manoj Srivastava <[srivasta@debian.org](mailto:srivasta@debian.org)>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

# 1.929 libpkit 0.24.0-6build1

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Upstream-Name: p11-kit

Source: <https://p11-glue.github.io/p11-glue/p11-kit.html>

Files: \*

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Files: common/vsock.c common/vsock.h

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Files: p11-kit/server.c

common/unix-peer.h

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Comment: make\_private\_security\_descriptor() and the helper functions were

\* copied from putty/windows/winsec.c in the PuTTY source code as of

\* git commit 12bd5a6c722152aa27f24598785593e72b3284ea.

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## 1.932 data-uri-to-buffer 4.0.1

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data-uri-to-buffer

=====

### Generate a Buffer instance from a [Data URI][rfc] string

[![Build Status](https://travis-ci.org/TooTallNate/node-data-uri-to-buffer.svg?branch=master)](https://travis-ci.org/TooTallNate/node-data-uri-to-buffer)

This module accepts a ["data" URI][rfc] String of data, and returns a  
node.js `Buffer` instance with the decoded data.

Installation

-----

Install with `npm`:

```
``` bash
$ npm install data-uri-to-buffer
```
```

Example

-----

```
``` js
import dataUriToBuffer from 'data-uri-to-buffer';

// plain-text data is supported
let uri = 'data:,Hello%2C%20World!';
let decoded = dataUriToBuffer(uri);
```
```

```

console.log(decoded.toString());
// 'Hello, World!'

// base64-encoded data is supported
uri = 'data:text/plain;base64,SGVsbG8sIFdvcmxkIQ%3D%3D';
decoded = dataUriToBuffer(uri);
console.log(decoded.toString());
// 'Hello, World!'
...

```

## API

---

```
dataUriToBuffer(String uri)
```

```
Buffer
```

The `type` property on the Buffer instance gets set to the main type portion of the "mediatype" portion of the "data" URI, or defaults to `"text/plain"` if not specified.

The `typeFull` property on the Buffer instance gets set to the entire "mediatype" portion of the "data" URI (including all parameters), or defaults to `"text/plain;charset=US-ASCII"` if not specified.

The `charset` property on the Buffer instance gets set to the Charset portion of the "mediatype" portion of the "data" URI, or defaults to `"US-ASCII"` if the entire type is not specified, or defaults to `""` otherwise.

*\*Note\**: If the only the main type is specified but not the charset, e.g. `"data:text/plain,abc"`, the charset is set to the empty string. The spec only defaults to US-ASCII as charset if the entire type is not specified.

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[rfc]: <http://tools.ietf.org/html/rfc2397>

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in path(s):

\* /opt/cola/permits/1596470688\_1678934457.2404861/0/data-uri-to-buffer-4-0-1-1-tgz/package/README.md

# 1.933 npm 6.14.18

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorabletaash@gmail.com](mailto:inexorabletaash@gmail.com)

// <https://github.com/inexorabletaash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows typed\_array.get/set() as alias for subscripts (typed\_array[])

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
```
```

```
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      "'UNLICENSED", or ' +
      "'SEE LICENSE IN <filename>",
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
...

```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    "'UNLICENSED", or ' +
    "'SEE LICENSE IN <filename>",
  ]
};

```

```

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
...

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
 valid('SEE
LICENSE IN LICENSE.txt'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'license.md'
 }
);
...

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
...

```

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""

spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

npm install spdx-license-ids

[Node.js](https://nodejs.org/) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true

ids.includes('GPL-3.0'); //=> false
```
```

```
### require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```
```

```
## License
```

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```
# The word list in cjdict.txt are generated by combining three word lists
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```
# frequency is generated with an iterative training against Google web
```

```

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1.935 icu 70

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(See the find_textfiles

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```
## *-makefile*-
```

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```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```
## Compiler switch to embed a library name
```

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
## Shared library options
```

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```
## Shared object suffix
```

```
SO = so
```

```
## Non-shared intermediate object suffix
```

```
STATIC_O = ao
```

```
## Compilation
```

```
rules
```

```
%. $(STATIC_O): $(srcdir)/%.c
```

```

$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

```

Dependency rules

```

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

```

```

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

```

Versioned libraries rules

```

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

```

Bind internal references

```

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

```

```

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

```

```

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

```

End BSD-specific setup

```

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```

```

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1.937 htmlparser2 8.0.2

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Alan Beale <biljr@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall

quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21
+0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 50 level includes Brian's frequency class 1, words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words from the YAWL package, and the 10,196 places list from the MWords package.

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1.945 libcrack 2.9.6-3.4build4

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<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a
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> license
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct

license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro

>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
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the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from

[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.946 libpwquality1 1.4.4-1build2

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1.949 ncurses 6.3-2ubuntu0.1

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1.950 coreutils 8.30-15.el8

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1.956 rpm 4.14.3-26.el8

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```

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Otherwise, if the work is a derivative of the Library, you may distribute the

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.959 librasm 0.0.3-5.el8

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1.962 libncurses 6.3-2ubuntu0.1

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1.967 libssh 0.9.6-10.el8_8

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1.970 semver 5.7.2

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1.971 gcc-12 12.3.0-1ubuntu1~22.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
<li class="home">
  HOME_HREF
```

```

</li>
<li class="release">
  12_HREF
</li>

<li>
  <a href="news.html" title="News">News</a>
</li>
<li>
  <a href="development.html" title="Development">Development</a>
</li>
<li>
  <a href="community.html" title="Community">Community</a>
</li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
<div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
  licences can be found on the
  <a href="http://www.gnu.org/licenses">GNU</a>

```


web site.</p>

</div>

</div>

</body>

</html>

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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Version 3.1, 31 March 2009

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"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

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7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

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additional terms, to the whole of the work, and all its parts,
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work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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```
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```

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Version 3, 29 June 2007

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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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1.973 gcc-12-base 12.3.0-1ubuntu1~22.04

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Julian Seward, jseward@bzip.org
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```

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1.976 validator 13.11.0

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1.977 libxml2 2.9.7-16.el8_8.1

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1.979 githubcompelletiergotoml v1.9.4

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[localtime.go](https://github.com/pelletier/localtime.go), [localtime_test.go](https://github.com/pelletier/localtime_test.go):

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.980 spf13-pflag v1.0.5

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1.981 buffer-more-ints 1.0.0

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```

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```

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```

```
*/
```

```
import React from 'react';
```

```
import type {Props} from '@theme/Footer/Copyright';
```

```
export default function FooterCopyright({copyright}: Props): JSX.Element {
```

```
  return (
```

```
    <div
```

```
      className="footer__copyright"
```

```
      // Developer provided the HTML, so assume it's safe.
```

```
      // eslint-disable-next-line react/no-danger
```

```
      dangerouslySetInnerHTML={{ __html: copyright }}
```

```
    />
```

```
  );
```

```
}
```

```
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```

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```
# `stylelint-copyright`
```

Stylelint plugin to check CSS files for a copyright header.

```
```css
/*
 * Copyright ...
 * ...
 */
```

## Usage

```json
// .stylelintrc
{
 "plugins": ["stylelint-copyright"],
 "rules": {
 "docusaurus/copyright-header": [true, {"header": "\n * Copyright"}]
 }
}
```
```

1.986 file 5.41-3ubuntu0.1

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1.987 define-properties 1.2.1

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1.988 uuid 9.0.1

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1.989 ca-certificates 2023.2.60_v7.0.306-80.0.el8_8

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Found in path(s):

```
*/opt/cola/permits/1805548026_1695840960.910981/0/ca-certificates-2023.2.60_v7.0.306-80.0.el8_8.src.rpm-cosi-expand-archive-5EOwHRg/nssckbi.h
```

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////

ca-legacy(8)

=====

:doctype: manpage

:man source: ca-legacy

NAME

ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS

`*ca-legacy* ['COMMAND']`

DESCRIPTION

`ca-legacy(8)` is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the `ca-certificates` package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The `ca-certificates` package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the `ca-certificates` package might reduce the set of legacy CA certificates that are included and trusted by default.

The `ca-legacy(8)` command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in `update-ca-trust(8)` still apply.

COMMANDS

`*check*::`

The current configuration will be shown.

`*default*::`

Configure the system to use the default configuration, as recommended by the package maintainers.

`*disable*::`

Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

***install*::**

The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES

/etc/pki/ca-trust/ca-legacy.conf::

A configuration file that will be used and modified by the ca-legacy command.

The contents of the configuration file will be read on package upgrades.

AUTHOR

Written by Kai Engert.

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////

update-ca-trust(8)

=====

:doctype: manpage

:man source: update-ca-trust

NAME

update-ca-trust - manage consolidated and dynamic configuration of CA certificates and associated trust

SYNOPSIS

update-ca-trust ['COMMAND']

DESCRIPTION

update-ca-trust(8) is used to manage a consolidated and dynamic configuration feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the consolidated configuration files found in the `/etc/pki/ca-trust/extracted` directory or that load the PKCS#11 module `p11-kit-trust.so`

Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named `libnssckbi`.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links.

The symbolic links refer to dynamically created and consolidated output stored below the `/etc/pki/ca-trust/extracted` directory hierarchy.

The output is produced using the `'update-ca-trust'` command (without parameters), or using the `'update-ca-trust extract'` command.

In order to produce the output, a flexible set of source configuration is read, as described in section `<<sourceconf,SOURCE CONFIGURATION>>`.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (`p11-kit-trust.so`) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION

The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:

* If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should add it to the respective subdirectory in the /etc hierarchy.

* If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.

* If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

.*QUICK HELP 1*:. To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:

* add it as a new file to directory /etc/pki/ca-trust/source/anchors/

* run 'update-ca-trust extract'

.*QUICK HELP 2*:. If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:

* add it as a new file to directory /etc/pki/ca-trust/source/

* run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.

* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/

*

simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/

* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

.In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:

* certificate files that include trust flags,

in the BEGIN/END TRUSTED CERTIFICATE file format

(any file name), which have been created using the openssl x509 tool and the -addreject -addtrust options.

Bundle files with multiple certificates are supported.

* files in the p11-kit file format using the .p11-kit file name extension, which can (e.g.) be used to distrust certificates based on serial number and issuer name, without having the full certificate available.

(This is currently an undocumented format, to be extended later.

For examples of the supported formats, see the files shipped with the ca-certificates package.)

* certificate files without trust flags in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files will be added with neutral trust, neither trusted nor distrusted.

They will simply be known to the system, which might be helpful to assist cryptographic software in constructing chains of certificates.

(If you want a CA certificate in these file formats to be trusted, you should remove it from this directory and move it to the ./anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/ you may install

one or multiple certificates in either the DER file

format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs may load one of the files found in the /etc/pki/ca-trust/extracted directory. After modifying any file in the /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ directories or in any of their subdirectories, or after adding a file, it is necessary to run the 'update-ca-trust extract' command, in order to update the consolidated files in /etc/pki/ca-trust/extracted/ .

Applications that load the classic PKCS#11 module using filename libnssckbi.so (which has been converted into a symbolic link pointing to the new module) and any application capable of loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from the dynamically merged set of certificates and trust information stored in the /usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]

EXTRACTED CONFIGURATION

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>> by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so, then you can use these files in your application to load a list of global root CA certificates.

Please never manually edit the files stored in this directory, because your changes will be lost and the files automatically overwritten, each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates, please rather install them in the respective subdirectory below the /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains a CA certificate bundle in the java keystore file format. Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format, as described in the x509(1) manual page. File ca-bundle.trust.crt contains the full set of all trusted or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format, as described in the x509(1) manual page. Distrust information cannot be represented in this file format, and distrusted

certificates are missing from these files.

File `tls-ca-bundle.pem` contains CA certificates trusted for TLS server authentication.

File `email-ca-bundle.pem` contains CA certificates trusted for E-Mail protection.

File `objsign-ca-bundle.pem` contains CA certificates trusted for code signing.

The directory `/etc/pki/ca-trust/extracted/edk2/` contains a CA certificate bundle ("`cacerts.bin`") in the "sequence of `EFI_SIGNATURE_LISTs`" format, defined in the `UEFI-2.7` specification, sections "31.4.1 Signature Database" and "`EFI_CERT_X509_GUID`". Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File "`cacerts.bin`" contains CA certificates trusted for TLS server authentication.

COMMANDS

(absent/empty command)::

Same as the `*extract*` command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

`*extract*::`

Instruct `update-ca-trust` to scan the `<<sourceconf,SOURCE CONFIGURATION>>` and produce updated versions of the consolidated configuration files stored below the `/etc/pki/ca-trust/extracted` directory hierarchy.

FILES

`/etc/pki/tls/certs/ca-bundle.crt::`

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple `BEGIN/END CERTIFICATE` file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/tls/certs/ca-bundle.trust.crt::`

Classic filename, file contains a list of CA certificates in the extended `BEGIN/END TRUSTED CERTIFICATE` file format, which includes trust (and/or distrust) flags specific to certificate usage.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/java/cacerts::`

Classic filename, file contains a list of

CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.

This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

/usr/share/pki/ca-trust-source::

Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::

Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::

Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.

See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR

Written by Kai Engert and Stef Walter.

Found in path(s):

* /opt/cola/permits/1805548026_1695840960.910981/0/ca-certificates-2023.2.60_v7.0.306-80.0.el8_8.src.rpm-cosi-expand-archive-5EOrwHRg/update-ca-trust.8.txt

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Found in path(s):

* /opt/cola/permits/1805548026_1695840960.910981/0/ca-certificates-2023.2.60_v7.0.306-80.0.el8_8.src.rpm-cosi-expand-archive-5EOrwHRg/certdata2pem.py

1.990 term-size 0.1.0

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1.993 zlib 1.2.11-25.el8

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1.994 go-toml 1.9.4

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

* Renamed files from civil* to localtime*.

* Package changed from civil to toml.

* 'Local' prefix added to all structs.

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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1.1011 node.js 16.20.2-1nodesource1

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-makefile-

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Commands to generate dependency files

```

GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp

```

```
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ :/g'" > $@; \
[ -s $@ ] || rm -f $@'
```

Versioned libraries rules

```
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@
```

Bind internal references

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
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```

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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File: alocal.m4 (only for ICU4C)

Section: pkg.m4 - Macros to locate and utilise pkg-config.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property.

Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
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version 1.2.11, January 15th, 2017

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1.1012 combined-stream 1.0.8

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1.1013 delayed-stream 1.0.0

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delayed-stream

Buffers events from a stream until you are ready to handle them.

Installation

```
``` bash
npm install delayed-stream
```
```

Usage

The following example shows how to write a http echo server that delays its response by 1000 ms.

```
``` javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
 var delayed = DelayedStream.create(req);

 setTimeout(function() {
 res.writeHead(200);
 delayed.pipe(res);
 }, 1000);
});
```
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

```
``` javascript
var delayed = DelayedStream.create(req);

setTimeout(function() {
 // Emit all buffered events and resume underlying source
 delayed.resume();
}, 1000);
```
```

Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

###

Event Buffering / Proxying

All events of the `source` stream are hijacked by overwriting the `source.emit` method. Until node implements a catch-all event listener, this is the only way.

However, `delayed-stream` still continues to emit all events it captures on the `source`, regardless of whether you have released the delayed stream yet or not.

Upon creation, `delayed-stream` captures all `source` events and stores them in an internal event buffer. Once `delayedStream.release()` is called, all buffered events are emitted on the `delayedStream`, and the event buffer is cleared. After that, `delayed-stream` merely acts as a proxy for the underlying source.

Error handling

Error events on `source` are buffered / proxied just like any other events. However, `delayedStream.create` attaches a no-op `'error'` listener to the `source`. This way you only have to handle errors on the `delayedStream` object, rather than in two places.

Buffer limits

`delayed-stream` provides a `maxDataSize` property that can be used to limit the amount of data being buffered. In order to protect you from bad `source` streams that don't react to `source.pause()`, this feature is enabled by default.

API

DelayedStream.create(source, [options])

Returns a new `DelayedStream`. Available options are:

- * `pauseStream`
- * `maxDataSize`

The description for those properties can be found below.

delayedStream.source

The `source` stream managed by this object. This is useful if you are passing your `DelayedStream` around, and you still want to access properties on the `source` object.

delayedStream.pauseStream = true

Whether to pause the underlying `source` when calling `DelayedStream.create()`. Modifying this property afterwards has no effect.

delayedStream.maxDataSize = 1024 * 1024

The amount of data to buffer before emitting an `error`.

If the underlying source is emitting `Buffer` objects, the `maxDataSize` refers to bytes.

If the underlying source is emitting JavaScript strings, the size refers to characters.

If you know what you are doing, you can set this property to `Infinity` to disable this feature. You can also modify this property during runtime.

delayedStream.dataSize = 0

The amount of data buffered so far.

delayedStream.readable

An ECMA5 getter that returns the value of `source.readable`.

delayedStream.resume()

If the `DelayedStream` has not been released so far, `DelayedStream.release()` is called.

In either case, `source.resume()` is called.

```
### delayedStream.pause()
```

Calls `source.pause()`.

```
### delayedStream.pipe(dest)
```

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

```
### delayedStream.release()
```

Emits and clears all events that have been buffered up so far. This does not resume the underlying source, use `delayedStream.resume()` instead.

```
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```

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Found in path(s):

```
* /opt/cola/permits/1830745388_1698153819.4839122/0/fis-components-delayed-stream-1-0-0-0-g42ac44e-1-tar-gz/fis-components-delayed-stream-3c3d86f/Readme.md
```

1.1014 ansi-styles 3.2.1

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1.1015 function-bind 1.1.1

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1.1016 has-flag 3.0.0

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1.1017 escape-string-regexp 1.0.5

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1.1018 safer-buffer 2.1.2

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1.1021 utils-merge 1.0.1

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1.1022 unpipe 1.0.0

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1.1023 color-name 1.1.3

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1.1024 yallist 3.1.1

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1.1025 fast-deep-equal 3.1.3

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1.1026 ee-first 1.1.1

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1.1028 depd 2.0.0

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1.1031 jws 3.2.2

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1.1032 ecdsa-sig-formatter 1.0.11

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1.1034 jwa 1.4.1

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1.1037 fresh 0.5.2

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1.1041 browser 2.11.0

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1.1042 mongodb-connection-string-url 2.6.0

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1.1043 asynckit 0.4.0

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1.1044 function-bind 1.1.2

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1.1045 punycode 2.3.1

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1.1046 universalify 2.0.1

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1.1047 kerberos 1.19.2-2ubuntu0.3

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_accept_sec_context.c
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lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
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cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
```

lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid_ops.c
- lib/gssapi/spnego/gssapiP_spnego.h
- lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/ipropr_hdr.h
- kadmin/server/ipropr_svc.c
- lib/kdb/ipropr.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
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- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.1062 procps 3.3.17-6ubuntu2.1

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```
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1.1069 pam 1.3.1-27.el8

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1.1070 util-linux 2.32.1-43.el8

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```
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```

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it  
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```

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"

  # Read the contents of the file into a variable
  local raw_license_text=$(<"$FILE")

  # Convert to lowercase
  local lowercase_license_text="${raw_license_text,,}"

  # Remove anything before the beginning of the license
  local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

  # Replace line breaks (Windows or Linux) with a single space
  local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

  # Replace multiple spaces with a single space
  local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

  # Strip away any non-printable, non-whitespace characters
  local clean_unprintable_license_text=$(tr
  -cd '[:print:][:space:]' <<< "$normalized_license_text")

  # Remove punctuation and special characters
  local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

  # Calculate the MD5 sum of the cleaned license text
  local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

```

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1.1071 libdnf 0.63.0-17.el8_9

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if

the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.1072 glibc 2.28-236.el8.7

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Most GNU software, including some libraries, is covered by the

ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is *Less* protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former

contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,

either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must

cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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These requirements apply to the modified work as a whole. If identifiable sections

of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Any executables

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1.1077 component-emitter 1.3.1

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1.1078 types-cors 2.8.17

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1.1079 audit 3.0.7-5.e18

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1.1080 libcap 2.48-5.el8

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1.1081 gnutls 3.6.16-7.el8

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Version 2.1, February 1999

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too

are
LGPL- or GPL-licensed.

WolfSSL

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NSS

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axTLS

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mbedTLS

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##

BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.1083 glibc 2.28-236.el8_9.7

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@center Version 2.1, February 1999

@c This file is intended to be included within another document,

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@enumerate 0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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Otherwise,
if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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@item

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@item

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@subheading END OF TERMS AND CONDITIONS

@page

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```
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@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end
smallexample
```

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```
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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@c ispell-local-pdict: "ispell-dict"

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1.1084 libsolv 0.7.20-6.el8

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?RCS:

?MAKE:d_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#\$d_fsync HAS_FSYNC /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U

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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE:-pick add \$@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#\$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U

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?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add \$@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#\$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U

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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#\$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtq exists

```
set strtouq d_strtouq
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtouq.U
```

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?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

```
set rint d_rint
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
```

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?RCS:

?MAKE:d_localeconv_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_localeconv_l:

?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which

?S: indicates to the C program that the localeconv_l() routine is available.

?S:.

?C:HAS_LOCALECONV_L:

?C: This symbol, if defined, indicates that the localeconv_1 routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d_localeconv_1 HAS_LOCALECONV_L /**/

?H:.

?LINT:set d_localeconv_1

: see if localeconv_1 exists

set localeconv_1 d_localeconv_1

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_1.U

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?RCS:

?MAKE:d_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llroundl:

?S: This variable conditionally defines the HAS_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_llroundl HAS_LLROUNDL /**/

?H:.

?LINT:set d_llroundl

: see if llroundl exists

set llroundl d_llroundl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U

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?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:
?RCS: \$Log: Nothing.U,v \$
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U

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?RCS:
?MAKE:d_frexp! Inlibc
?MAKE: -pick add \$@ %<
?S:d_frexp!
?S: This variable conditionally defines the HAS_FREXP symbol, which
?S: indicates to the C program that the frexp() routine is available.
?S:.
?C:HAS_FREXP!
?C: This symbol, if defined, indicates that the frexp routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#\$d_frexp! HAS_FREXP! /**/
?H:.
?LINT:set d_frexp!
: see if frexp exists
set frexp d_frexp!
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexp.U

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?RCS:

?MAKE:d_roundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_roundl:

?S: This variable conditionally defines the HAS_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_roundl HAS_LROUNDL /**/

?H:.

?LINT:set d_roundl

: see if lroundl exists

set lroundl d_roundl

eval \$inlibc

Found in path(s):

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?MAKE:d_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

?LINT:set d_tgamma

: see if tgamma exists

set tgamma d_tgamma

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U

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?RCS:

?MAKE:d_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ilogb:

?S: This variable conditionally defines the HAS_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d_ilogb HAS_ILOGB /**/

?H:.

?LINT:set d_ilogb

: see if ilogb exists

set ilogb d_ilogb

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U

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?RCS:

?MAKE:i_poll: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_poll:

?S: This variable conditionally defines the I_POLL symbol, and indicates

?S: whether a C program should include <poll.h>.

?S:.

?C:I_POLL:

?C: This symbol, if defined, indicates that <poll.h> exists and

?C: should be included. (see also HAS_POLL)

?C:.

?H:#\$i_poll I_POLL /**/

?H:.

?LINT:set i_poll

: see if this is a poll.h system

set poll.h i_poll

eval \$inhdr

Found in path(s):

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?RCS:

?MAKE:d_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hypot:

?S: This variable conditionally defines HAS_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d_hypot HAS_HYPOT /**/

?H:.

?LINT:set d_hypot

: see if hypot exists

set hypot d_hypot

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U

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?RCS:

?MAKE:i_ustat: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#\$i_ustat I_USTAT /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add \$@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.

?S:.

?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U

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?RCS:

?MAKE:d_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llrint:

?S: This variable conditionally defines the HAS_LLRLINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LLRLINT:

?C: This symbol, if defined, indicates that the llrint routine is

?C: available to return the long long value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_llrint HAS_LLRLINT /**/

?H:.

?LINT:set d_llrint

: see if llrint exists

set llrint d_llrint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U

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?RCS:

```
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:47 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C
```

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?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add \$@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#\$d_llround HAS_LLROUND /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U

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?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#\$d_strtold HAS_STRTOLD /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysutsname.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysutsname: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysutsname:

?S: This variable conditionally defines the I_SYSUTSNAME symbol,

?S: and indicates whether a C program should include <sys/utsname.h>.

?S:.

?C:I_SYSUTSNAME:

?C: This symbol, if defined, indicates that <sys/utsname.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysutsname I_SYSUTSNAME /**/

?H:.

?LINT:set i_sysutsname

: see if this is a sys/utsname.h system

set sys/utsname.h i_sysutsname

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U

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?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U

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?RCS:

?MAKE:d_fegetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fegetround:

?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is

?S: available to get the floating point rounding mode.

?S:.

?C:HAS_FEGETROUND:

?C: This symbol, if defined, indicates that the fegetround routine is

?C: available to return the macro corresponding to the current rounding

?C: mode.

?C:.

?H:#\$d_fegetround HAS_FEGETROUND /**/

?H:.

?LINT:set d_fegetround

: see if fegetround exists

set fegetround d_fegetround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U

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?RCS:

?MAKE:d_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strftime:

?S: This variable conditionally defines the HAS_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d_strftime HAS_STRFTIME /**/

?H:.

?LINT:set d_strftime

: see if strftime exists

set strftime d_strftime

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_aintl:

?S: This variable conditionally defines the HAS_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_aintl HAS_AINTL /**/

?H:.

?LINT:set d_aintl

: see if aintl exists

set aintl d_aintl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add \$@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#\$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#\$d_fmin HAS_FMIN /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strtod_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtod_l:

?S: This variable conditionally defines the HAS_STRTOD_L symbol, which

?S: indicates to the C program that the strtod_l() routine is available.

?S:.

?C:HAS_STRTOD_L:

?C: This symbol, if defined, indicates that the strtod_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtod_l HAS_STRTOD_L /**/

?H:.

?LINT:set d_strtod_l

: see if strtod_l exists

set strtod_l d_strtod_l

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_getnameinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getnameinfo:

?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,

?S: which indicates to the C program that the getnameinfo() function

?S: is available.

?S:
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.

?C:.
?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.

?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.

?C:.
?H:#\$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add \$@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#\$d_atanh HAS_ATANH /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U

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?RCS:

?MAKE:i_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i_quadmath:

?S: This variable conditionally defines I_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_quadmath I_QUADMATH /**/
?H:.

?LINT:set i_quadmath

: see if this is a quadmath.h system

set quadmath.h i_quadmath

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
```



```
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_socks5_init: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_socks5_init:
```

```
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
```

```
?S: indicates to the C program that the socks5_init() routine is available.
```

```
?S:.
```

```
?C:HAS_SOCKS5_INIT:
```

```
?C: This symbol, if defined, indicates that the socks5_init routine is
```

```
?C: available to initialize SOCKS 5.
```

```
?C:.
```

```
?H:#$d_socks5_init HAS_SOCKS5_INIT /**/
```

```
?H:.
```

```
?LINT:set d_socks5_init
```

```
: see if socks5_init exists
```

```
set socks5_init d_socks5_init
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
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```

```
?RCS:
```

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```

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```

```
?RCS:
```

```
?MAKE:d_hasmntopt: Inlibc
```

```
?MAKE: -pick add $@ %<
```

?S:d_hasmntopt:

?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d_hasmntopt HAS_HASMNTOPT /**/

?H:.

?LINT:set d_hasmntopt

: see if hasmntopt exists

set hasmntopt d_hasmntopt

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U

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/*

* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* Original Author: unknown, got this off net.sources

*

* \$Log: getopt.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:40 ram

* patch16: created

*

*/

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C

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?RCS:

?MAKE:d_scalbn: Inlibc
?MAKE: -pick add \$@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#\$d_scalbn HAS_SCALBN /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U

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?RCS:

?MAKE:d_lgamma_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma_r:

?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which

?S: indicates to the C program that the lgamma_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS_LGAMMA_R:

?C: This symbol, if defined, indicates that the lgamma_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d_lgamma_r HAS_LGAMMA_R /**/
?H:.

?LINT:set d_lgamma_r

: see if lgamma_r exists

set lgamma_r d_lgamma_r

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U

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```
?RCS: $Id: i_sysmount.U,v $
?RCS:
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?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U
```

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```
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
```

?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U

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?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_truncl HAS_TRUNCL /**/

?H:.

?LINT:set d_truncl

: see if truncl exists

set truncl d_truncl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finite:

?S: This variable conditionally defines the HAS_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#\$d_finite HAS_FINITE /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U

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?RCS: \$Id\$
?RCS:
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?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add \$@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_finitel HAS_FINITEL /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U

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?RCS: \$Id: i_sysuio.U,v \$
?RCS:
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?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add \$@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#\$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U

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?RCS: \$Id: i_shadow.U,v \$
?RCS:
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?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#\$i_prot I_PROT /**/
?H:.

```
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_unordered: Inlibc
```

```
?MAKE:-pick add $@ %<
```

```
?S:d_unordered:
```

```
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
```

```
?S: indicates to the C program that the unordered() routine is available.
```

```
?S:.
```

```
?C:HAS_UNORDERED:
```

```
?C: This symbol, if defined, indicates that the unordered routine is
```

```
?C: available to check whether two doubles are unordered
```

```
?C: (effectively: whether either of them is NaN)
```

```
?C:.
```

```
?H:#$d_unordered HAS_UNORDERED /**/
```

```
?H:.
```

```
?LINT:set d_unordered
```

```
: see if unordered exists
```

```
set unordered d_unordered
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
```

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```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_fmax: Inlibc
```

```
?MAKE:-pick add $@ %<
```

```
?S:d_fmax:
```

```
?S: This variable conditionally defines the HAS_FMAX symbol, which
```

```
?S: indicates to the C program that the fmax() routine is available.
```


?S:
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.

?C:
?H:#\$d_fmax HAS_FMAX /**/

?H:
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U

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?RCS: \$Id: i_sysstatvfs.U,v \$
?RCS:
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?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add \$@ %<

?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:

?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.

?C:
?H:#\$i_sysstatvfs I_SYS_STATVFS /**/

?H:
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U

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?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add \$@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#\$d_exp2 HAS_EXP2 /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U

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?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add \$@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#\$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U

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?RCS:

?MAKE:d_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d_expm1:

?S: This variable conditionally defines the HAS_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d_expm1 HAS_EXPM1 /**/

?H:.

?LINT:set d_expm1

: see if expm1 exists

set expm1 d_expm1

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U

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?RCS:

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?RCS:

?MAKE:d_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_clearenv:

?S: This variable conditionally defines the HAS_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d_clearenv HAS_CLEARENV /**/

?H:
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U

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?RCS:

?MAKE:d_accessx: Inlibc

?MAKE: -pick add \$@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#\$d_accessx HAS_ACCESSX /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add \$@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads. You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#\$d_readv HAS_READV /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_readv.U

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?RCS:

?MAKE:d_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_asinh:

?S: This variable conditionally defines the HAS_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d_asinh HAS_ASINH /**/

?H:.

?LINT:set d_asinh

: see if asinh exists

set asinh d_asinh

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_asinh.U

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?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbnl:

?S: This variable conditionally defines the HAS_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d_scalbnl HAS_SCALBNL /**/

?H:.

?LINT:set d_scalbnl

: see if scalbnl exists

set scalbnl d_scalbnl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_isinfl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isinfl:

?S: This variable conditionally defines the HAS_ISINFL symbol, which

?S: indicates to the C program that the isinfl() routine is available.

?S:.

?C:HAS_ISINFL:

?C: This symbol, if defined, indicates that the isinfl routine is

?C: available to check whether a long double is an infinity.

?C:.

?H:#\$d_isinfl HAS_ISINFL /**/

?H:.

?LINT:set d_isinfl

: see if isinfl exists

set isinfl d_isinfl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U

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?RCS:

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?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U

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?RCS:

?MAKE:i_stdint: Inhdr

?MAKE: -pick add \$@ %<

?S:i_stdint:

?S: This variable conditionally defines the I_STDINT symbol, which

?S: indicates to the C program that <stdint.h> exists and should

?S: be included.

?S:.

?C:I_STDINT:

?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.

?C:.

?H:#\$i_stdint I_STDINT /**/

?H:.

?LINT:set i_stdint

: see if stdint is available

set stdint.h i_stdint

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U

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?RCS: \$Id: i_sysmode.U,v \$

?RCS:

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?RCS:

?MAKE:i_sysmode: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysmode:

?S: This variable conditionally defines the I_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.

?S:.

?C:I_SYSMODE:

?C: This symbol, if defined, indicates that <sys/mode.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysmode I_SYSMODE /**/

?H:.

?LINT:set i_sysmode

: see if this is a sys/mode.h system

set sys/mode.h i_sysmode

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U

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?RCS:

?MAKE:d_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lround:

?S: This variable conditionally defines the HAS_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d_lround HAS_LROUND /**/

?H:.

?LINT:set d_lround

: see if lround exists

set lround d_lround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setitimer:

?S: This variable conditionally defines the HAS_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.
?H:#\$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval \$inlibc

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).

?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).

?C:.
?H:#\$d_lrintl HAS_LRINTL /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval \$inlibc

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sunmath.U,v \$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:

?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#\$i_sunmath I_SUNMATH /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U

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?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add \$@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U

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?RCS:

?MAKE:d_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remainder:

?S: This variable conditionally defines the HAS_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d_remainder HAS_REMAINDER /**/

?H:.

?LINT:set d_remainder

: see if remainder exists

set remainder d_remainder

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_fseeko:

?S: This variable conditionally defines the HAS_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_fseeko HAS_FSEEKO /**/

?H:.

```
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
```

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?RCS:

?MAKE:d_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_logb:

?S: This variable conditionally defines the HAS_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d_logb HAS_LOGB /**/

?H:.

?LINT:set d_logb

: see if logb exists

set logb d_logb

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U
```

No license file was found, but licenses were detected in source scan.

/*

* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

*

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*

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* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.
*
* \$Log: rename.C,v \$
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C

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?RCS:

?MAKE:d_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d_nexttoward HAS_NEXTTOWARD /**/

?H:.

?LINT:set d_nexttoward

: see if nexttoward exists

set nexttoward d_nexttoward

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d_isfinitel: Inlibc

?MAKE: -pick add \$@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U

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?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/
?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_netdb.U,v \$


```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
```

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```
?RCS: $Id: i_bfd.U,v $
?RCS:
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?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD /**/
?H:.
?LINT:set i_bfd
```

: see if this is a bfd.h system

set bfd.h i_bfd

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U

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?RCS: \$Id: i_shadow.U,v \$

?RCS:

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?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_socks.U,v \$

?RCS:

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?RCS:

?MAKE:i_socks: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_socks:

?S: This variable conditionally defines the I_SOCKS symbol, and indicates

?S: whether a C program should include <socks.h>.

?S:.

?C:I_SOCKS:

?C: This symbol, if defined, indicates that <socks.h> exists and

?C: should be included.

?C:.

?H:#\$i_socks I_SOCKS /**/

?H:.

?LINT:set i_socks

: see if this is a socks.h system

set socks.h i_socks

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U

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?RCS:

?MAKE:d_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erf:

?S: This variable conditionally defines the HAS_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d_erf HAS_ERF /**/

?H:.

?LINT:set d_erf

: see if erf exists

set erf d_erf

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U

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?RCS:

?MAKE:d_log1p: Inlibc

?MAKE: -pick add \$@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#\$d_log1p HAS_LOG1P /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U

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?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add \$@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#\$d_atolf HAS_ATOLF /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/atof.U

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?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d_nan HAS_NAN /**/

?H:.

?LINT:set d_nan

: see if nan exists

set nan d_nan

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_nan.U

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?RCS:

?MAKE:d_qgcvt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_qgcvt:

?S: This variable conditionally defines the HAS_QGCVT symbol, which

?S: indicates to the C program that the qgcvt() routine is available.

?S:.

?C:HAS_QGCVT:

?C: This symbol, if defined, indicates that the qgcvt routine is

?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d_qgcvt HAS_QGCVT /**/

?H:.

```
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U
```

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```
?RCS: $Id$
```

```
?RCS:
```

```
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```
?RCS:
```

```
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```

```
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```

```
?RCS:
```

```
?MAKE:d_fstatfs : Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_fstatfs:
```

```
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
```

```
?S: indicates to the C program that the fstatfs() routine is available.
```

```
?S:.
```

```
?C:HAS_FSTATFS:
```

```
?C: This symbol, if defined, indicates that the fstatfs routine is
```

```
?C: available to stat filesystems by file descriptors.
```

```
?C:.
```

```
?H:#$d_fstatfs HAS_FSTATFS /**/
```

```
?H:.
```

```
?LINT:set d_fstatfs
```

```
: see if fstatfs exists
```

```
set fstatfs d_fstatfs
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U
```

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```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_mkdtmp: Inlibc
```

```
?MAKE: -pick add $@ %<
```

?S:d_mkdtmp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtmp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtmp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdtmp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdtmp

: see if mkdtmp exists

set mkdtmp d_mkdtmp

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtmp.U

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?RCS:

?MAKE:d_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdclose:

?S: This variable conditionally defines the HAS_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d_fdclose HAS_FDCLOSE /**/

?H:.

?LINT:set d_fdclose

: see if fdclose exists

set fdclose d_fdclose

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U

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?RCS:
?MAKE:d_socketmark: Inlibc
?MAKE: -pick add \$@ %<
?S:d_socketmark:
?S: This variable conditionally defines the HAS_SOCKETMARK symbol, which
?S: indicates to the C program that the socketmark() routine is available.
?S:.
?C:HAS_SOCKETMARK:
?C: This symbol, if defined, indicates that the socketmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#\$d_socketmark HAS_SOCKETMARK /**/
?H:.
?LINT:set d_socketmark
: see if socketmark exists
set socketmark d_socketmark
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socketmark.U

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?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#\$d_strnlen HAS_STRNLEN /**/
?H:.
?LINT:set d_strnlen


```
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U
```

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?RCS:

?MAKE:d_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d_round:

?S: This variable conditionally defines the HAS_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d_round HAS_ROUND /**/

?H:.

?LINT:set d_round

: see if round exists

set round d_round

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
```

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?RCS: \$Id: i_fp_class.U,v \$

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?RCS:

?MAKE:i_fp_class: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_fp_class:

?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates

?S: whether a C program should include <fp_class.h>.

?S:.

?C:I_FP_CLASS:

?C: This symbol, if defined, indicates that <fp_class.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp_class I_FP_CLASS /**/

?H:.

?LINT:set i_fp_class

: see if this is a fp_class.h system

set fp_class.h i_fp_class

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U

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?RCS:

?MAKE:d_setproctitle: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setproctitle:

?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,

?S: which indicates to the C program that the setproctitle() routine

?S: is available.

?S:.

?C:HAS_SETPROCTITLE:

?C: This symbol, if defined, indicates that the setproctitle routine is

?C: available to set process title.

?C:.

?H:#\$d_setproctitle HAS_SETPROCTITLE /**/

?H:.

?LINT:set d_setproctitle

: see if setproctitle exists

set setproctitle d_setproctitle

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U

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?RCS:

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?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add \$@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#\$d_recvmsg HAS_RECVMSG /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U

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?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add \$@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#\$d_inetpton HAS_INETPTON /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists

```
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
```

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?RCS:

?MAKE:d_ftello: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_ftello:

?S: This variable conditionally defines the HAS_FTELLO symbol, which

?S: indicates to the C program that the ftello() routine is available.

?S:.

?C:HAS_FTELLO:

?C: This symbol, if defined, indicates that the ftello routine is

?C: available to ftell beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_ftello HAS_FTELLO /**/

?H:.

?LINT:set d_ftello

: see if ftello exists

set ftello d_ftello

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use ftell.)" ;;

esac

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
```

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?RCS: \$Id: i_fp.U,v \$

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?RCS:

?MAKE:i_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fp:

?S: This variable conditionally defines the I_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

?C:I_FP:

?C: This symbol, if defined, indicates that <fp.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp I_FP /**/

?H:.

?LINT:set i_fp

: see if this is a fp.h system

set fp.h i_fp

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U

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* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html

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/*

* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* Original Author: Larry Wall <lwall@netlabs.com>

*

* \$Log: dup2.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:37 ram

* patch16: created

*

*/

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C

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?RCS:

?MAKE:d_getmnt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getmnt:

?S: This variable conditionally defines the HAS_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS_GETMNT:

?C: This symbol, if defined, indicates that the getmnt routine is

?C: available to get filesystem mount info by filename.

?C:.

?H:#\$d_getmnt HAS_GETMNT /**/

?H:.

?LINT:set d_getmnt

: see if getmnt exists

set getmnt d_getmnt

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U

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?RCS:

?MAKE:d_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrint:

?S: This variable conditionally defines the HAS_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U

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?RCS:

?MAKE:d_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getitimer:

?S: This variable conditionally defines the HAS_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d_getitimer HAS_GETITIMER /**/

?H:.

?LINT:set d_getitimer

: see if getitimer exists

set getitimer d_getitimer

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U

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Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl

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?RCS:

?MAKE:d_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log2:

?S: This variable conditionally defines the HAS_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d_log2 HAS_LOG2 /**/

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getcwd: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getcwd:

?S: This variable conditionally defines the HAS_GETCWD symbol, which

?S: indicates to the C program that the getcwd() routine is available

?S: to get the current working directory.

?S:.

?C:HAS_GETCWD :

?C: This symbol, if defined, indicates that the getcwd routine is

?C: available to get the current working directory.

?C:.

?H:#\$d_getcwd HAS_GETCWD /**/

?H:.


```
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_ieeefp: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_ieeefp:
```

```
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
```

```
?S: whether a C program should include <ieeeep.h>.
```

```
?S:.
```

```
?C:I_IEEEFP:
```

```
?C: This symbol, if defined, indicates that <ieeeep.h> exists and
```

```
?C: should be included.
```

```
?C:.
```

```
?H:#$i_ieeefp I_IEEEFP /**/
```

```
?H:.
```

```
?LINT:set i_ieeefp
```

```
: see if this is a ieeeep.h system
```

```
case "$i_ieeefp" in
```

```
" ) set ieeeep.h i_ieeefp
```

```
    eval $inhdr
```

```
    ;;
```

```
esac
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available. If aintl is also present we can emulate modfl.
?C:.
?H:#\$d_copysignl HAS_COPYSIGNL /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add \$@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#\$d_ualarm HAS_UALARM /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U

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?RCS:

?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fpgetround:

?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d_fpgetround HAS_FPGETROUND /**/

?H:.

?LINT:set d_fpgetround

: see if fpgetround exists

set fpgetround d_fpgetround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towupper:

?S: This variable conditionally defines the HAS_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towupper HAS_TOWUPPER /**/

```
?H:
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_sqrtl: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_sqrtl:
```

```
?S: This variable conditionally defines the HAS_SQRTL symbol, which
```

```
?S: indicates to the C program that the sqrtl() routine is available.
```

```
?S:.
```

```
?C:HAS_SQRTL:
```

```
?C: This symbol, if defined, indicates that the sqrtl routine is
```

```
?C: available to do long double square roots.
```

```
?C:.
```

```
?H:#$d_sqrtl HAS_SQRTL /**/
```

```
?H:
```

```
?LINT:set d_sqrtl
```

```
: see if sqrtl exists
```

```
set sqrtl d_sqrtl
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Null.U,v \$
?RCS: Revision 3.0 1993/08/18 12:05:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ". This
?X: probably isn't necessary, but I'm paranoid. About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null \$@ %<

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_mntent.U,v \$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#\$i_mntent I_MNTENT /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval \$inhdr

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_poll.U,v \$

?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#\$i_langinfo I_LANGINFO /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add \$@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#\$d_towlower HAS_TOWLOWER /**/
?H:.
?LINT:set d_towlower

```
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:full_ar: ar
```

```
?MAKE: -pick add $@ %<
```

```
?S:full_ar:
```

```
?S: This variable contains the full pathname to 'ar', whether or
```

```
?S: not the user has specified 'portability'. This is only used
```

```
?S: in the Makefile.SH.
```

```
?S:.
```

```
: Store the full pathname to the ar program for use in the C program
```

```
: Respect a hint or command line value for full_ar.
```

```
case "$full_ar" in
```

```
  ") full_ar=$ar ;;
```

```
esac
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_atoll: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_atoll:
```

```
?S: This variable conditionally defines the HAS_ATOLL symbol, which
```

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d_atoll HAS_ATOLL /**/

?H:.

?LINT:set d_atoll

: see if atoll exists

set atoll d_atoll

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: scandir.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:45 ram

* patch16: created

*

*/

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.

?C:
?H:#\$d_remquo HAS_REMQUO /**/

?H:
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add \$@ %<

?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.

?S:
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.

?C:
?H:#\$d_getfsstat HAS_GETFSSTAT /**/

?H:
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add \$@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#\$d_copysign HAS_COPYSIGN /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add \$@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#\$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3

```
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:.

?LINT:set d_lgamma

: see if lgamma exists

set lgamma d_lgamma

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2008 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_timegm: Inlibc

?MAKE: -pick add \$@ %<

?S:d_timegm:

?S: This variable conditionally defines the HAS_TIMEGM symbol, which

?S: indicates to the C program that the timegm () routine is available.

?S:
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()

?C:
?H:#\$d_timegm HAS_TIMEGM /**/

?H:
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U

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Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_isnanl: Inlibc

?MAKE:-pick add \$@ %<

?S:d_isnanl:

?S: This variable conditionally defines the HAS_ISNANL symbol, which

?S: indicates to the C program that the isnanl() routine is available.

?S:

?C:HAS_ISNANL:

?C: This symbol, if defined, indicates that the isnanl routine is

?C: available to check whether a long double is a NaN.

?C:

?H:#\$d_isnanl HAS_ISNANL /**/

?H:
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U

No license file was found, but licenses were detected in source scan.

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?RCS: as specified in the README file that comes with the distribution.

?RCS:

?MAKE:i_fenv: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fenv:

?S: This variable conditionally defines the I_FENV symbol, which

?S: indicates to the C program that <fenv.h> exists and should

?S: be included.

?S:.

?C:I_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i_fenv I_FENV /**/

?H:.

?LINT:set i_fenv

: see if this is a fenv.h system

set fenv.h i_fenv

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fchdir: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fchdir:

?S: This variable conditionally defines the HAS_FCHDIR symbol, which

?S: indicates to the C program that the fchdir() routine is available.

?S:.

?C:HAS_FCHDIR:

?C: This symbol, if defined, indicates that the fchdir routine is

?C: available to change directory using a file descriptor.

?C:.

?H:#\$d_fchdir HAS_FCHDIR /**/

?H:.

?LINT:set d_fchdir

: see if fchdir exists

set fchdir d_fchdir

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_crypt.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_crypt:

?S: This variable conditionally defines the I_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.

?C:.

?H:#\$i_crypt I_CRYPT /**/

?H:.

?LINT:set i_crypt

: see if this is a crypt.h system

set crypt.h i_crypt

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_syslog.U,v \$

?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#\$i_syslog I_SYSLOG /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#\$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U

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?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_acosh:

?S: This variable conditionally defines the HAS_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d_acosh HAS_ACOSH /**/

?H:.

?LINT:set d_acosh

: see if acosh exists

set acosh d_acosh

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U

1.1086 perl-base 5.34.0-3ubuntu1.3

1.1086.1 Available under license :

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbnl:

?S: This variable conditionally defines the HAS_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.


```
?S:
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available. If ilogbl is also present we can emulate frexpl.
?C:
?H:#$d_scalbnl HAS_SCALBNL /**/
?H:
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE:-pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'. This is only used
?S: in the Makefile.SH.
?S:
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

?MAKE:d_fegetround: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#\$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add \$@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#\$d_hasmntopt HAS_HASMNTOPT /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finite:

?S: This variable conditionally defines the HAS_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.

?S:.

?C:HAS_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d_finite HAS_FINITE /**/

?H:.

?LINT:set d_finite

: see if finite exists

set finite d_finite

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_shadow.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2005 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add \$@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#\$d_clearenv HAS_CLEARENV /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
/*
 * $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
 *
 * Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 *
 * You may redistribute only under the terms of the Artistic Licence,
 * as specified in the README file that comes with the distribution.
 * You may reuse parts of this distribution only within the terms of
 * that same Artistic Licence; a copy of which may be found at the root
 * of the source tree for dist 4.0.
 *
 * Original Author: unknown, got this off net.sources
 *
 * $Log: getopt.C,v $
 * Revision 3.0.1.1 1994/01/24 13:58:40 ram
 * patch16: created
 *
 */
```

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysmount.U,v \$

?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#\$i_sysmount I_SYS_MOUNT /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_bfd.U,v \$
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#\$i_bfd I_BFD /**/
?H:.
?LINT:set i_bfd

```
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_accessx: Inlibc

?MAKE: -pick add \$@ %<

?S:d_accessx:

?S: This variable conditionally defines the HAS_ACCESSX symbol, which

?S: indicates to the C program that the accessx() routine is available.

?S:.

?C:HAS_ACCESSX :

?C: This symbol, if defined, indicates that the accessx routine is

?C: available to do extended access checks.

?C:.

?H:#\$d_accessx HAS_ACCESSX /**/

?H:.

?LINT:set d_accessx

: see if accessx exists

set accessx d_accessx

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_syslog.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_syslog: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_syslog:

?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#\$i_syslog I_SYSLOG /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#\$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U

No license file was found, but licenses were detected in source scan.


```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/

?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_isnanl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isnanl:

?S: This variable conditionally defines the HAS_ISNANL symbol, which

?S: indicates to the C program that the isnanl() routine is available.

?S:.

?C:HAS_ISNANL:

?C: This symbol, if defined, indicates that the isnanl routine is

?C: available to check whether a long double is a NaN.

?C:.

?H:#\$d_isnanl HAS_ISNANL /**/

?H:.

?LINT:set d_isnanl

: see if isnanl exists

set isnanl d_isnanl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getaddrinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getaddrinfo:

?S: This variable conditionally defines the HAS_GETADDRINFO symbol,

?S: which indicates to the C program that the getaddrinfo() function

?S: is available.

?S:.

?C:HAS_GETADDRINFO:

?C: This symbol, if defined, indicates that the getaddrinfo() function

?C: is available for use.

?C:.

?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/

?H:.

?LINT:set d_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d_getaddrinfo

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i_netdb:

?S: This variable conditionally defines the I_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:
?H:#\$i_netdb I_NETDB /**/
?H:
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add \$@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:
?H:#\$d_setproctitle HAS_SETPROCTITLE /**/
?H:
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d_round:

?S: This variable conditionally defines the HAS_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d_round HAS_ROUND /**/

?H:.

?LINT:set d_round

: see if round exists

set round d_round

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U

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?RCS:

?MAKE:d_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remainder:

?S: This variable conditionally defines the HAS_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d_remainder HAS_REMAINDER /**/

?H:.

?LINT:set d_remainder

: see if remainder exists

set remainder d_remainder

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U

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?RCS:

?MAKE:d_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fma:

?S: This variable conditionally defines the HAS_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d_fma HAS_FMA /**/

?H:.

?LINT:set d_fma

: see if fma exists

set fma d_fma

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetpton:

?S: This variable conditionally defines the HAS_INETPTON symbol,

?S: which indicates to the C program that the inet_pton() function

?S: is available.

?S:.

?C:HAS_INETPTON:

?C: This symbol, if defined, indicates that the inet_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetpton HAS_INETPTON /**/

?H:.

?LINT:set d_inetpton

```
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d_eaccess:

?S: This variable conditionally defines the HAS_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS_EACCESS :

?C: This symbol, if defined, indicates that the eaccess routine is

?C: available to do extended access checks.

?C:.

?H:#\$d_eaccess HAS_EACCESS /**/

?H:.

?LINT:set d_eaccess

```
: see if eaccess exists
```

```
set eaccess d_eaccess
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
```

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?RCS:

?MAKE:d_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llroundl:

?S: This variable conditionally defines the HAS_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_llroundl HAS_LLROUNDL /**/

?H:.

?LINT:set d_llroundl

: see if llroundl exists

set llroundl d_llroundl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysvfs.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysvfs:

?S: This variable conditionally defines the I_SYSVFS symbol,

?S: and indicates whether a C program should include <sys/vfs.h>.

?S:.

?C:I_SYS_VFS:

?C: This symbol, if defined, indicates that <sys/vfs.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysvfs I_SYS_VFS /**/

?H:.

?LINT:set i_sysvfs

: see if this is a sys/vfs.h system

set sys/vfs.h i_sysvfs

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$


```
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:47 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

?MAKE:d_fdclose: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor. This function appeared in FreeBSD 10.2.
?C:.
?H:#\$d_fdclose HAS_FDCLOSE /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socketatmark: Inlibc
?MAKE: -pick add \$@ %<
?S:d_socketatmark:
?S: This variable conditionally defines the HAS_SOCKETATMARK symbol, which
?S: indicates to the C program that the socketatmark() routine is available.
?S:.
?C:HAS_SOCKETATMARK:
?C: This symbol, if defined, indicates that the socketatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#\$d_socketatmark HAS_SOCKETATMARK /**/
?H:.
?LINT:set d_socketatmark
: see if socketatmark exists
set socketatmark d_socketatmark
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socketmark.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the WRITEME file.

?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_fseeko:

?S: This variable conditionally defines the HAS_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_fseeko HAS_FSEEKO /**/

?H:.

?LINT:set d_fseeko

: see if fseeko exists

set fseeko d_fseeko

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use fseek.)" ;;

esac

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_copysignl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysignl:

?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which

?S: indicates to the C program that the copysignl() routine is available.

?S: If aintl is also present we can emulate modfl.

?S:.

?C:HAS_COPYSIGNL:

?C: This symbol, if defined, indicates that the copysignl routine is

?C: available. If aintl is also present we can emulate modfl.

?C:.

?H:#\$d_copysignl HAS_COPYSIGNL /**/

?H:.

?LINT:set d_copysignl

: see if copysignl exists

set copysignl d_copysignl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U

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?RCS: as specified in the README file that comes with the distribution.

?RCS:

?MAKE:i_stdint: Inhdr

?MAKE: -pick add \$@ %<

?S:i_stdint:

?S: This variable conditionally defines the I_STDINT symbol, which

?S: indicates to the C program that <stdint.h> exists and should

?S: be included.

?S:.

?C:I_STDINT:

?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.

?C:.

?H:#\$i_stdint I_STDINT /**/

?H:.

?LINT:set i_stdint

: see if stdint is available

set stdint.h i_stdint

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/Null.U

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Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add \$@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#\$d_getfsstat HAS_GETFSSTAT /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add \$@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#\$d_acosh HAS_ACOSH /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_acosh.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_ualarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ualarm:

?S: This variable conditionally defines the HAS_UALARM symbol, which

?S: indicates to the C program that the ualarm() routine is available.

?S:.

?C:HAS_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is

?C: available to do alarms with microsecond granularity.

?C:.

?H:#\$d_ualarm HAS_UALARM /**/

?H:.

?LINT:set d_ualarm

: see if ualarm exists

set ualarm d_ualarm

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_ualarm.U

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?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U

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?RCS:

?MAKE:d_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atanh:

?S: This variable conditionally defines the HAS_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d_atanh HAS_ATANH /**/

?H:.

?LINT:set d_atanh

: see if atanh exists

set atanh d_atanh

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U

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?RCS:

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?RCS:

?MAKE:d_strnlen: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strnlen:

?S: This variable conditionally defines the HAS_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strlen () routine is
?C: available to check the length of a string up to a maximum.

?C:
?H:#\$d_strlen HAS_STRNLEN /**/
?H:

?LINT:set d_strlen
: see if strlen exists
set strlen d_strlen
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlen.U

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?RCS:
?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add @\$ %<

?S:d_fpgetround:

?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:

?C:HAS_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:

?H:#\$d_fpgetround HAS_FPGETROUND /**/
?H:

?LINT:set d_fpgetround

: see if fpgetround exists

set fpgetround d_fpgetround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U

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?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add \$@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#\$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U

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?RCS:

?MAKE:d_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erf:

?S: This variable conditionally defines the HAS_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d_erf HAS_ERF /**/
?H:.

?LINT:set d_erf

: see if erf exists

set erf d_erf

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U

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?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:.

?LINT:set d_erfc

: see if erfc exists

set erfc d_erfc

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U

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?RCS:

?MAKE:d_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nearbyint:

?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d_nearbyint HAS_NEARBYINT /**/

?H:.

?LINT:set d_nearbyint

: see if nearbyint exists

set nearbyint d_nearbyint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d_dup3:

?S: This variable conditionally defines HAS_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d_dup3 HAS_DUP3 /**/

?H:.

?LINT:set d_dup3

: see if dup3 exists

set dup3 d_dup3

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U

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?RCS:

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?RCS:

?MAKE:d_timegm: Inlibc

?MAKE: -pick add \$@ %<

?S:d_timegm:

?S: This variable conditionally defines the HAS_TIMEGM symbol, which

?S: indicates to the C program that the timegm () routine is available.

?S:.

?C:HAS_TIMEGM:

?C: This symbol, if defined, indicates that the timegm routine is

?C: available to do the opposite of gmtime ()

?C:.

?H:#\$d_timegm HAS_TIMEGM /**/

?H:.

?LINT:set d_timegm

: see if timegm exists

set timegm d_timegm

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

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?RCS:

?MAKE:d_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towlower:

?S: This variable conditionally defines the HAS_TOWLOWER symbol, which

?S: indicates to the C program that the towlower() routine is available.

?S:.

?C:HAS_TOWLOWER:

?C: This symbol, if defined, indicates that the towlower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towlower HAS_TOWLOWER /**/

?H:.

?LINT:set d_towlower

: see if towlower exists

set towlower d_towlower

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U

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/*

* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_ustat.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:
?H:#$i_ustat I_USTAT /**/
?H:
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr

```

Found in path(s):

```

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_sysutsname.U,v $

```

?RCS:
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 ?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:i_sysutsname: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_sysutsname:
 ?S: This variable conditionally defines the I_SYSUTSNAME symbol,
 ?S: and indicates whether a C program should include <sys/utsname.h>.
 ?S:.
 ?C:I_SYSUTSNAME:
 ?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_sysutsname I_SYSUTSNAME /**/
 ?H:.
 ?LINT:set i_sysutsname
 : see if this is a sys/utsname.h system
 set sys/utsname.h i_sysutsname
 eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U

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 ?RCS:
 ?MAKE:d_isinfl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_isinfl:
 ?S: This variable conditionally defines the HAS_ISINFL symbol, which
 ?S: indicates to the C program that the isinfl() routine is available.
 ?S:.
 ?C:HAS_ISINFL:
 ?C: This symbol, if defined, indicates that the isinfl routine is
 ?C: available to check whether a long double is an infinity.
 ?C:.
 ?H:#\$d_isinfl HAS_ISINFL /**/
 ?H:.
 ?LINT:set d_isinfl

: see if isinfl exists

set isinfl d_isinfl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U

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?RCS:

?MAKE:d_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysign:

?S: This variable conditionally defines the HAS_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d_copysign HAS_COPYSIGN /**/

?H:.

?LINT:set d_copysign

: see if copysign exists

set copysign d_copysign

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U

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?RCS: \$Id: i_ieeeFP.U,v \$

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?RCS:

?MAKE:i_ieeeFP: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_ieeeFP:

?S: This variable conditionally defines the I_IEEEFP symbol, and indicates

?S: whether a C program should include <iieee.h>.

?S:.

?C:I_IEEEFP:

?C: This symbol, if defined, indicates that <iieee.h> exists and

?C: should be included.

?C:.

?H:#\$i_ieefp I_IEEEFP /**/

?H:.

?LINT:set i_ieefp

: see if this is a iieee.h system

case "\$i_ieefp" in

") set iieee.h i_ieefp

eval \$inhdr

::

esac

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieefp.U

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?RCS:

?MAKE:d_fsync: Inlibc

?MAKE:-pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d_fsync HAS_FSYNC /**/

?H:.

?LINT:set d_fsync

: see if fsync exists

set fsync d_fsync

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U

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?RCS:

?MAKE:d_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_aintl:

?S: This variable conditionally defines the HAS_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_aintl HAS_AINTL /**/

?H:.

?LINT:set d_aintl

: see if aintl exists

set aintl d_aintl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U

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?RCS:

?MAKE:d_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ilogb:

?S: This variable conditionally defines the HAS_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

```
?H:#$d_ilogb HAS_ILOGB /**/  
?H.:  
?LINT:set d_ilogb  
: see if ilogb exists  
set ilogb d_ilogb  
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $  
?RCS:  
?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i_sysuio: Inhdr  
?MAKE: -pick add $@ %<  
?S:i_sysuio:  
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates  
?S: whether a C program should include <sys/uio.h>.  
?S.:  
?C:I_SYSUIO:  
?C: This symbol, if defined, indicates that <sys/uio.h> exists and  
?C: should be included.  
?C.:  
?H:#$i_sysuio I_SYSUIO /**/  
?H.:  
?LINT:set i_sysuio  
: see if this is a sys/uio.h system  
set sys/uio.h i_sysuio  
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d_lrint: Inlibc  
?MAKE: -pick add $@ %<  
?S:d_lrint:  
?S: This variable conditionally defines the HAS_LRINT symbol, which
```

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_socks.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_socks: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_socks:

?S: This variable conditionally defines the I_SOCKS symbol, and indicates

?S: whether a C program should include <socks.h>.

?S:.

?C:I_SOCKS:

?C: This symbol, if defined, indicates that <socks.h> exists and

?C: should be included.

?C:.

?H:#\$i_socks I_SOCKS /**/

?H:.

?LINT:set i_socks

: see if this is a socks.h system

set socks.h i_socks

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE:-pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE:-pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
```

```
?C:
?H:#$i_sunmath I_SUNMATH /**/
?H:
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
```

?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#\$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE:-pick add \$@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#\$d_atoll HAS_ATOLL /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lgamma_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma_r:

?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which

?S: indicates to the C program that the lgamma_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS_LGAMMA_R:

?C: This symbol, if defined, indicates that the lgamma_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d_lgamma_r HAS_LGAMMA_R /**/

?H:.

?LINT:set d_lgamma_r

: see if lgamma_r exists

set lgamma_r d_lgamma_r

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setitimer:

?S: This variable conditionally defines the HAS_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d_setitimer HAS_SETITIMER /**/

?H:.

?LINT:set d_setitimer

: see if setitimer exists

set setitimer d_setitimer

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_poll.U,v \$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_langinfo:

?S: This variable conditionally defines the I_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i_langinfo I_LANGINFO /**/

?H:.

?LINT:set i_langinfo

: see if this is a langinfo.h system

set langinfo.h i_langinfo

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hypot:

?S: This variable conditionally defines HAS_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

```
?C:.
?H:#$d_hypot HAS_HYPOT /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
```

```
*
```

```
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
```

```
* You may redistribute only under the terms of the Artistic Licence,
```

* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* \$Log: scandir.C,v \$
* Revision 3.0.1.1 1994/01/24 13:58:45 ram
* patch16: created
*
*/

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_readv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_readv:

?S: This variable conditionally defines the HAS_READV symbol, which

?S: indicates to the C program that the readv() routine is available.

?S:.

?C:HAS_READV:

?C: This symbol, if defined, indicates that the readv routine is

?C: available to do gather reads. You will also need <sys/uio.h>

?C: and there I_SYSUIO.

?C:.

?H:#\$d_readv HAS_READV /**/

?H:.

?LINT:set d_readv

: see if readv exists

set readv d_readv

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add \$@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#\$d_asinh HAS_ASINH /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#\$d_strtod_l HAS_STRTOD_L /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_1.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unordered:

?S: This variable conditionally defines the HAS_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d_unordered HAS_UNORDERED /**/

?H:.

?LINT:set d_unordered

: see if unordered exists

set unordered d_unordered

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_fp.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fp:

?S: This variable conditionally defines the I_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

?C:I_FP:

?C: This symbol, if defined, indicates that <fp.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp I_FP /**/

?H:.

?LINT:set i_fp

: see if this is a fp.h system

set fp.h i_fp

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_atolf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atolf:

?S: This variable conditionally defines the HAS_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d_atolf HAS_ATOLF /**/

?H:.

?LINT:set d_atolf

: see if atolf exists

set atolf d_atolf

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fp_classl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fp_classl:

?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which

?S: indicates to the C program that the fp_classl() routine is available.

?S:.

?C:HAS_FP_CLASSL:

?C: This symbol, if defined, indicates that the fp_classl routine is

?C: available to classify long doubles. Available for example in

?C: Digital UNIX. See for possible values HAS_FP_CLASS.

?C:.

?H:#\$d_fp_classl HAS_FP_CLASSL /**/

?H:.

?LINT:set d_fp_classl

: see if fp_classl exists

set fp_classl d_fp_classl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_classl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sqrtl:

?S: This variable conditionally defines the HAS_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d_sqrtl HAS_SQRTL /**/

?H:.

?LINT:set d_sqrtl

: see if sqrtl exists

set sqrtl d_sqrtl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysmode.U,v \$

?RCS:

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?RCS:

?MAKE:i_sysmode: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysmode:

?S: This variable conditionally defines the I_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.

?S:.

?C:I_SYSMODE:

?C: This symbol, if defined, indicates that <sys/mode.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysmode I_SYSMODE /**/

?H:.

?LINT:set i_sysmode

: see if this is a sys/mode.h system

set sys/mode.h i_sysmode

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U

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?RCS:

?MAKE:d_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrintl:

?S: This variable conditionally defines the HAS_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.

?H:#\$d_lrintl HAS_LRINTL /**/

?H:.

?LINT:set d_lrintl

: see if lrintl exists

set lrintl d_lrintl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U

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?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

set rint d_rint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U

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?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d_scalbn HAS_SCALBN /**/

?H:.

?LINT:set d_scalbn

: see if scalbn exists

set scalbn d_scalbn

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U

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?RCS:

?MAKE:d_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_logb:

?S: This variable conditionally defines the HAS_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d_logb HAS_LOGB /**/

?H:.

?LINT:set d_logb

: see if logb exists

set logb d_logb

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U

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?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#\$d_fmax HAS_FMAX /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U

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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add \$@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#\$d_ftello HAS_FTELLO /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval \$inlibc
case "\$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;

esac

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U

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?RCS:

?MAKE:d_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_trunc:

?S: This variable conditionally defines the HAS_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U

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?RCS:

?MAKE:d_qgcvt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_qgcvt:

?S: This variable conditionally defines the HAS_QGCVT symbol, which

?S: indicates to the C program that the qgcvt() routine is available.

?S:.

?C:HAS_QGCVT:

?C: This symbol, if defined, indicates that the qgcvt routine is

?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d_qgcvt HAS_QGCVT /**/

?H:.

?LINT:set d_qgcvt

: see if qgcvt exists

set qgcvt d_qgcvt

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U

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?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d_remquo HAS_REMQUO /**/

?H:.

?LINT:set d_remquo

: see if remquo exists

set remquo d_remquo

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U

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?RCS:

?MAKE:d_exp2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_exp2:

?S: This variable conditionally defines the HAS_EXP2 symbol, which

?S: indicates to the C program that the exp2() routine is available.

?S:
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:
?H:#\$d_exp2 HAS_EXP2 /**/
?H:
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U

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?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add \$@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:
?H:#\$d_fchdir HAS_FCHDIR /**/
?H:
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U

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?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add \$@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#\$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U

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?RCS: \$Id: i_mntent.U,v \$
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?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#\$i_mntent I_MNTENT /**/
?H:.
?LINT:set i_mntent

: see if this is a mntent.h system

set mntent.h i_mntent

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getitimer:

?S: This variable conditionally defines the HAS_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d_getitimer HAS_GETITIMER /**/

?H:.

?LINT:set d_getitimer

: see if getitimer exists

set getitimer d_getitimer

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U

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?RCS:

?MAKE:d_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llround:

?S: This variable conditionally defines the HAS_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d_llround HAS_LLROUND /**/

?H:.

?LINT:set d_llround

: see if llround exists

set llround d_llround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U

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?RCS:

?MAKE:d_tgamma: Inlibc

?MAKE: -pick add @\$ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

?LINT:set d_tgamma

: see if tgamma exists

set tgamma d_tgamma

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U

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?RCS: \$Id: i_sysstatfs.U,v \$

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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#\$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U

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?RCS: \$Id: i_fp_class.U,v \$
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?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#\$i_fp_class I_FP_CLASS /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/i_fp_class.U

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?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d_nan HAS_NAN /**/

?H:.

?LINT:set d_nan

: see if nan exists

set nan d_nan

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_nan.U

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?RCS:

?MAKE:d_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d_expm1:

?S: This variable conditionally defines the HAS_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d_expm1 HAS_EXPM1 /**/

?H:.

?LINT:set d_expm1

: see if expm1 exists

set expm1 d_expm1

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U

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?RCS:

?MAKE:d_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmin:

?S: This variable conditionally defines the HAS_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d_fmin HAS_FMIN /**/

?H:.

?LINT:set d_fmin

: see if fmin exists

set fmin d_fmin

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U

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?RCS:

?MAKE:d_strtold: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtold:

?S: This variable conditionally defines the HAS_STRTOLD symbol, which

?S: indicates to the C program that the strtold() routine is available.

?S:.

?C:HAS_STRTOLD:

?C: This symbol, if defined, indicates that the strtold routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtold HAS_STRTOLD /**/

?H:
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_frexp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_frexp:

?S: This variable conditionally defines the HAS_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS_FREXP:

?C: This symbol, if defined, indicates that the frexp routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d_frexp HAS_FREXP /**/

?H:.

?LINT:set d_frexp

: see if frexp exists

set frexp d_frexp

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexp.U

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?RCS:

?MAKE:d_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log2:

?S: This variable conditionally defines the HAS_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d_log2 HAS_LOG2 /**/

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U

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?RCS:

?MAKE:i_fenv: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fenv:

?S: This variable conditionally defines the I_FENV symbol, which

?S: indicates to the C program that <fenv.h> exists and should

?S: be included.

?S:.

?C:I_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i_fenv I_FENV /**/

?H:.

?LINT:set i_fenv

: see if this is a fenv.h system

set fenv.h i_fenv

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add \$@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#\$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U

No license file was found, but licenses were detected in source scan.

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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add \$@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#\$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel


```
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
```

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?RCS:

?MAKE:d_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d_nexttoward HAS_NEXTTOWARD /**/

?H:.

?LINT:set d_nexttoward

: see if nexttoward exists

set nexttoward d_nexttoward

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U
```

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_mkdttemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdttemp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdttemp() routine is available

?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#\$d_mkdtemp HAS_MKDTEMP /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U

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?RCS:

?MAKE:d_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nextafter:

?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS_NEXTAFTER:

?C: This symbol, if defined, indicates that the nextafter routine is

?C: available to return the next machine representable double from

?C: x in direction y.

?C:.

?H:#\$d_nextafter HAS_NEXTAFTER /**/
?H:.

?LINT:set d_nextafter

: see if nextafter exists

set nextafter d_nextafter

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add \$@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#\$d_socks5_init HAS_SOCKS5_INIT /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U

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?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add \$@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#\$i_quadmath I_QUADMATH /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/i_quadmath.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

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?RCS:

?MAKE:d_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towupper:

?S: This variable conditionally defines the HAS_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towupper HAS_TOWUPPER /**/

?H:.

?LINT:set d_towupper

: see if towupper exists

set towupper d_towupper

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_towupper.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysstatvfs.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatvfs:

?S: This variable conditionally defines the I_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I_SYS_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

```
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U
```

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Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl
```

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?RCS:

?MAKE:d_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log1p:

?S: This variable conditionally defines the HAS_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute $\log(1 + x)$ for values of x close to zero.

?S:.

?C:HAS_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

```
?H:#$d_log1p HAS_LOG1P /**/
```

?H:.

```
?LINT:set d_log1p
```

: see if log1p exists

```
set log1p d_log1p
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_crypt.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#\$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U

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?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#\$d_lroundl HAS_LROUNDL /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U

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?RCS:

?MAKE:d_fstatfs : Inlibc

?MAKE: -pick add \$@ %<

?S:d_fstatfs:

?S: This variable conditionally defines the HAS_FSTATFS symbol, which

?S: indicates to the C program that the fstatfs() routine is available.

?S:.

?C:HAS_FSTATFS:

?C: This symbol, if defined, indicates that the fstatfs routine is

?C: available to stat filesystems by file descriptors.

?C:.

?H:#\$d_fstatfs HAS_FSTATFS /**/

?H:.

?LINT:set d_fstatfs

: see if fstatfs exists

set fstatfs d_fstatfs

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d_finitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finitel:

?S: This variable conditionally defines the HAS_FINITEL symbol, which

?S: indicates to the C program that the finitel() routine is available.

?S:.

?C:HAS_FINITEL:

?C: This symbol, if defined, indicates that the finitel routine is

?C: available to check whether a long double is finite

?C: (non-infinity non-NaN).

?C:.

?H:#\$d_finitel HAS_FINITEL /**/

?H:.

?LINT:set d_finitel

: see if finitel exists

set finitel d_finitel

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U

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?RCS:

?MAKE:d_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lround:

?S: This variable conditionally defines the HAS_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d_lround HAS_LROUND /**/

?H:.

?LINT:set d_lround

: see if lround exists

set lround d_lround

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U

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?RCS:

?MAKE:d_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_recvmsg:

?S: This variable conditionally defines the HAS_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_recvmsg HAS_RECVMSG /**/

?H:.

?LINT:set d_recvmsg

: see if recvmsg exists

set recvmsg d_recvmsg

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d_getnameinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getnameinfo:

?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,

?S: which indicates to the C program that the getnameinfo() function

?S: is available.

?S:.

?C:HAS_GETNAMEINFO:

?C: This symbol, if defined, indicates that the getnameinfo() function

?C: is available for use.

?C:.

?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/

?H:.

?LINT:set d_getnameinfo

: see if getnameinfo exists

set getnameinfo d_getnameinfo

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U

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?RCS: \$Id: i_shadow.U,v \$

?RCS:

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?RCS:

?MAKE:i_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_prot:

?S: This variable conditionally defines the I_PROT symbol, and indicates

?S: whether a C program should include <prot.h>.

?S:.

?C:I_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and

?C: should be included.

?C:.

?H:#\$i_prot I_PROT /**/

?H:.

?LINT:set i_prot

: see if this is a prot.h system

set prot.h i_prot

eval \$inhdr

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U

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?RCS:

?MAKE:d_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llrint:

?S: This variable conditionally defines the HAS_LLRRINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LLRRINT:

?C: This symbol, if defined, indicates that the llrint routine is

?C: available to return the long long value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_llrint HAS_LLRRINT /**/

?H:.

?LINT:set d_llrint

: see if llrint exists

set llrint d_llrint

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U

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Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtoq:

?S: This variable conditionally defines the HAS_STRTOQ symbol, which

?S: indicates to the C program that the strtouq() routine is available.

?S:.

?C:HAS_STRTOQ:

?C: This symbol, if defined, indicates that the strtouq routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d_strtoq HAS_STRTOQ /**/

?H:.

?LINT:set d_strtoq

: see if strtouq exists

set strtouq d_strtoq

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_strtoq.U

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?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_truncl HAS_TRUNCL /**/

?H:.

?LINT:set d_truncl

: see if truncl exists

set truncl d_truncl

eval \$inlibc

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U

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?RCS:

?MAKE:d_localeconv_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_localeconv_l:

?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which

?S: indicates to the C program that the localeconv_l() routine is available.

?S:.

?C:HAS_LOCALECONV_L:

?C: This symbol, if defined, indicates that the localeconv_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d_localeconv_l HAS_LOCALECONV_L /**/

```
?H:
?LINT:set d_localeconv_1
: see if localeconv_1 exists
set localeconv_1 d_localeconv_1
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_1.U
```

1.1087 python 3.10.12-1~22.04.3

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |

| | | | | |
|---------------|-----------|----------|------------|---------|
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | | |
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@end
smallexample
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```

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Ty Coon, President of Vice
@end smallexample
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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@subheading END OF TERMS AND CONDITIONS

@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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1.1104 pam 1.4.0-11ubuntu2.4

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c

=====

```
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -282,6 +282,65 @@ static void try_to_display_directories_w
    _pam_drop(dirscans);
}
```

```
+int display_legal(pam_handle_t *pamh)
```

```
+{
```

```

+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
+     PAM_MODUTIL_DEF_PRIVS(privs);
+
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID to %d temporarily\n",
+                 pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+             int fd = open("/etc/legal", O_RDONLY, 0);
+             if (fd >= 0) {
+                 try_to_display_fd(pamh, fd);
+                 close(fd);
+             }
+             mkdir(dir, 0700);
+             f = open(flag,
+                 O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f >= 0) close(f);
+         }
+
+     +finished:
+         if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,

```

```

+         "Unable to change UID back to %d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+ }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+

```

```

int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
{
@@ -396,6 +455,9 @@ int pam_sm_open_session(pam_handle_t *pa
try_to_display_directories_with_overrides(pamh, motd_dir_path_split,
    num_motd_dir_paths, report_missing);

```

```

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
+ out:
+     _pam_drop(motd_path_copy);
+     _pam_drop(motd_path_split);

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

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1.1105 libpamg 1.4.0-11ubuntu2.4

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1.1106 libpammodulesbin 1.4.0-11ubuntu2.4

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1.1107 systemd 249.11-0ubuntu3.12

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Comment: <https://github.com/benhoyt/inih>

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the work with the complete corresponding

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1.1112 cookie 0.6.0

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1.1113 moment-timezone 0.5.45

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1.1114 @types/component-emitter 1.2.14

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1.1115 engine.io-parser 5.2.2

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1.1116 golang 1.22.0

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```
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* httpd@ncsa.uiuc.edu  
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```
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```

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
```

For the expat xml parser component:

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*/

```
<?xml version="1.0" encoding="ISO-8859-1"?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
```

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X
```

This file is generated from xml source: DO NOT EDIT

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
X
```

```
-->
```

```
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
```

```
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
```

```
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No  
Sidebar - Default font size" />
```

```
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"  
type="text/css" href="/style/css/prettify.css" />
```

```
<script src="/style/scripts/prettify.min.js" type="text/javascript">
```

```
</script>
```

```
<link
```

```
href="/images/favicon.ico" rel="shortcut icon" /></head>
```

```
<body id="manual-page" class="no-sidebar"><div id="page-header">
```

```
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
```

```
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
```

```
href="/sitemap.html">Sitemap</a></p>
```

```
<p class="apache">Apache HTTP Server Version 2.4</p>
```

```
</div>
```

```
<div class="up"><a href="/"></a></div>
```

```
<div id="path">
```

```
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
```

```
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
```

```
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
```

```
<div class="toplant">
```

```
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
```

```
</div>
```

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```
<div class="example"><pre>Copyright
[yyyy] [name of copyright owner]
```

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</div>

</div>

```
<div class="bottomlang">
```

```
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
```

```
</div><div class="top"><a href="#page-header"></a></div><div
```

```
class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
```

```
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a href="http://httpd.apache.org/lists.html">mailing lists</a></div>
```

```
<script type="text/javascript"><!--><![CDATA[//><!--
```

```
var comments_shortcode = 'httpd';
```

```
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
```

```
(function(w, d) {
```

```
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
```

```
    d.write('<div id="comments_thread"></div>');
```

```
    var s = d.createElement('script');
```

```
    s.type = 'text/javascript';
```

```
    s.async = true;
```

```
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
```

```
comments_identifier;
```

```
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
```

```
}
else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
}
})(window, document);
<!--><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[<!--><!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
<!--><![></script>
</body></html>
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```

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```
#####  
##Parson License  
#####  
/*  
Parson ( http://kgabis.github.com/parson/ )  
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```

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```
*/  
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```

```
#####  
##http-parser license  
#####  
Copyright  
2009,2010 Ryan Dahl <ry@tinyclouds.org>
```

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1.1118 coreutils 8.32-4.1ubuntu1.1

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1.1120 base-files 12ubuntu4.6

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```

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```
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```
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```

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<signature of Ty Coon>, 1 April 1989

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9.1.2

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1.1128 @isaacs/string-locale-compare 1.1.0

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1.1129 openapi-types 12.1.3

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1.1130 socks 2.8.1

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1.1131 openssl 3.0.2-0ubuntu1.15

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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.1135 qs 6.12.0

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1.1136 follow-redirects 1.15.6

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1.1141 @smithy/util-buffer-from 2.2.0

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1.1145 @smithy/node-http-handler 2.5.0

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1.1146 @smithy/invalid-dependency 2.2.0

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1.1155 @smithy/service-error-classification

2.1.5

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1.1156 @smithy/util-config-provider 2.3.0

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1.1157 @smithy/util-body-length-browser

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1.1164 @smithy/util-uri-escape 2.2.0

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1.1175 @aws-sdk/util-user-agent-browser

3.535.0

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1.1176 @aws-sdk/middleware-host-header

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1.1177 @aws-sdk/credential-provider-env

3.535.0

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1.1178 @aws-sdk/region-config-resolver

3.535.0

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1.1179 @aws-sdk/util-locate-window 3.535.0

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1.1180 @aws-sdk/middleware-recursion-detection 3.535.0

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1.1181 ipaddr.js 1.9.1

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1.1182 on-headers 1.0.2

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1.1183 cors 2.8.5

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1.1184 string_decoder 1.1.1

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1.1185 buffer 5.7.1

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1.1186 process-nextick-args 2.0.1

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1.1188 readable-stream 2.3.8

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1.1189 sprintf-js 1.1.3

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1.1191 @mongodb-js/saslprep 1.1.5

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1.1192 nodemailer 6.9.13

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1.1193 ip-address 9.0.5

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1.1194 @aws-sdk/util-endpoints 3.540.0

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1.1195 @aws-sdk/middleware-user-agent

3.540.0

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1.1211 @aws-sdk/client-cognito-identity

3.549.0

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1.1212 @aws-sdk/credential-provider-node

3.549.0

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