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Version 3, 29 June 2007

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1.3 xinetd 2.3.15

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1.4 bzip2 1.0.6

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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```
minibz2
```

```
libbz2.dll test program.
```

```
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
```

```
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```

```
usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
```

```
*/
```

1.5 unzip 6.0

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

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*

* A collection of File Manager and related routines

*

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.6 libusb-compat 0.1.5

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1.7 lasso 2.5.1

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1.8 findutils 4.6.0

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1.9 pam 1.3.0

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1.10 libpcap 1.8.1

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1.11 diffutils 3.6

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1.12 libtasn 4.12

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1.14 apr-util 1.6.1

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```
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1.15 libmnl 1.0.4

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```
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```

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```
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```

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/* \$NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp \$ */

/*

* System call numbers.

*

* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp

*/

```
#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid 20
#define
TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
```

```

#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
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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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=====

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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/*

* System call numbers.

*

* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723

* 2012-01-06 19:29:16Z jhb

*/

```
#define TARGET_FREEBSD_NR_syscall 0
```

```
#define TARGET_FREEBSD_NR_exit 1
```

```
#define TARGET_FREEBSD_NR_fork 2
```

```
#define TARGET_FREEBSD_NR_read 3
```

```
#define TARGET_FREEBSD_NR_write 4
```

```

#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid
    23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
    49
#define TARGET_FREEBSD_NR_setlogin 50

```

```

#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvice 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define
TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */

```

```

#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */

    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmmsg */
    /* 114 is old sendmsg */
    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid
    127
#define TARGET_FREEBSD_NR_rename 128
    /* 129 is old truncate */
    /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
    /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
    /* 141 is old getpeername */
    /* 142 is old gethostid */
    /* 143 is old sethostid */
    /* 144 is old getrlimit */
    /* 145 is old setrlimit */
    /* 146 is old killpg */

```

```

#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
    /* 149 is old quota */
    /*
150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
    /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR seteuid 183
#define TARGET_FREEBSD_NR_stat
188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207

```

```

#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget
    225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
    257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnxct 302

```

```

#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid
    310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define
    TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348

```

```

#define TARGET_FREEBSD_NR__acl_get_fd 349
#define TARGET_FREEBSD_NR__acl_set_fd 350
#define TARGET_FREEBSD_NR__acl_delete_file 351
#define TARGET_FREEBSD_NR__acl_delete_fd 352
#define TARGET_FREEBSD_NR__acl_aclcheck_file 353
#define TARGET_FREEBSD_NR__acl_aclcheck_fd
354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
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#define
TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
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#define TARGET_FREEBSD_NR_getfsstat 395
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#define TARGET_FREEBSD_NR_fstatfs 397
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#define TARGET_FREEBSD_NR_ksem_close 400
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#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
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#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
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#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
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414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
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#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
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#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
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#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
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#define
TARGET_FREEBSD_NR_ksem_timedwait 441
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#define TARGET_FREEBSD_NR_auditon 446
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#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
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#define TARGET_FREEBSD_NR_thr_kill2 481
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#define TARGET_FREEBSD_NR_cpuset_setid 485
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#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
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#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define
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#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
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#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
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#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter
516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pfork 518
#define TARGET_FREEBSD_NR_pkill 519
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#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
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#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
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#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532
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Any executables

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Ty Coon, President of Vice

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Index: debug.c

```
=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v  
retrieving revision 1.1  
retrieving revision 1.3  
diff -u -u -r1.1 -r1.3  
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1  
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3  
@@ -52,7 +52,11 @@  
void X86EMU_trace_regs (void)  
{  
    if (DEBUG_TRACE()) {  
-    x86emu_dump_regs();  
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {  
+    x86emu_dump_xregs();  
+ } else {  
+    x86emu_dump_regs();  
+ }  
    }  
    if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {  
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);  
@@ -185,7 +189,7 @@  
        for (i=0; i< M.x86.enc_pos; i++) {  
            sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));  
        }  
-    printk("%-20s",buf1);  
+    printk("%-20s ",buf1);  
    }  
  
static void print_decoded_instruction (void)  
Index: ops2.c
```

```
=====  
RCS file:
```

```

/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
     target += (s16) M.x86.R_IP;
     DECODE_PRINTF2("%04x\n", target);
     TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/******
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+   case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+   case 0xc9:
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);

```



```

+   break;
+   case 0xca:
+       DECODE_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+       break;
+   case 0xcb:
+       DECODE_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+   case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+   case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+   case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+   case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
+       = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,

```

```
+/* 0xcd */ x86emuOp2_bswap,
```

```
+/* 0xce */ x86emuOp2_bswap,
```

```
+/* 0xcf */ x86emuOp2_bswap,
```

```
/* 0xd0 */ x86emuOp2_illegal_op,
```

```
/* 0xd1 */ x86emuOp2_illegal_op,
```

Index:

ops.c

```
=====
```

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```
    imm = (s8)fetch_byte_imm();
```

```
    DECODE_PRINTF2("PUSH\t%d\n", imm);
```

```
    TRACE_AND_STEP();
```

```
-    push_word(imm);
```

```
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
+        push_long(imm);
```

```
+    } else {
```

```
+        push_word(imm);
```

```
+    }
```

```
    DECODE_CLEAR_SEGOVR();
```

```
    END_OF_INSTR();
```

```
}
```

@@ -1256,8 +1260,10 @@

```
    target = (u16)(M.x86.R_IP + (s16)offset);
```

```
    DECODE_PRINTF2("%x\n", target);
```

```
    TRACE_AND_STEP();
```

```
-    if (cond)
```

```
+    if (cond) {
```

```
        M.x86.R_IP = target;
```

```
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
```

```
+    }
```

```
    DECODE_CLEAR_SEGOVR();
```

```
    END_OF_INSTR();
```

```
}
```

@@ -2516,9 +2522,11 @@

```
    count = 1;
```

```
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
```

```
{
```

```
    /* dont care whether REPE or REPNE */
```

```
-    /* move them until CX is ZERO. */
```

```
-    count = M.x86.R_CX;
```

```
+    /* move them until (E)CX is ZERO. */
```

```
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
```

```

    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);

```

```

    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2741,11 +2765,16 @@

```

```

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /*
move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-       M.x86.R_CX -- 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -- 1;
+       else
+           M.x86.R_CX -- 1;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */

```

```

- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+
        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */

```

```

+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+   val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+   cmp_byte(M.x86.R_AL, val2);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+   else
+     M.x86.R_CX -= 1;
+   M.x86.R_DI += inc;
+   if (ACCESS_FLAG(F_ZF) == 0)
+     break;
+   if (M.x86.intr & INTR_HALTED)
+     break;
+ }
+ M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+ } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+   /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

+   val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+   cmp_byte(M.x86.R_AL, val2);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+   else
+     M.x86.R_CX -= 1;
+   M.x86.R_DI += inc;
+   if (ACCESS_FLAG(F_ZF))
+     break;      /* zero flag set means equal */
+   if (M.x86.intr & INTR_HALTED)
+     break;
+ }
+ M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -2951,8 +3003,8 @@
+ TRACE_AND_STEP();
+ if (M.x86.mode & SYSMODE_PREFIX_REPE) {
+   /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+     if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+       cmp_long(M.x86.R_EAX,

```

```

val);
@@ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
-   M.x86.R_CX -- 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -- 1;
+   else
+       M.x86.R_CX -- 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
-   M.x86.R_CX -- 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -- 1;
+   else
+       M.x86.R_CX -- 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;    /* zero flag set means equal */
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);

```



```

- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3254,9 +3316,9
@@
{
  START_OF_INSTR();
  DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
  DECODE_PRINTF("RETF\t");
  imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
  ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;

```

```

- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+ else
+   M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }

```

```

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;

```

```

case 4:      /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
case 5:      /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

```

Index: prim_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)

{

#ifdef __HAS_LONG_LONG__

- s64 res = (s64)d * (s64)s;

+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;

 *res_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul_long(u32 s)

{

#ifdef __HAS_LONG_LONG__

- u64 res = (u32)M.x86.R_EAX * (u32)s;

+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;

 M.x86.R_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

 /* dont care whether REPE or REPNE */

- /* in until CX is ZERO. */

- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

```

        M.x86.R_ECX : M.x86.R_CX);
-
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode
        &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

@@ -45,11 +45,6 @@

#include <x86emu/regs.h>

#include "debug.h"

#include "prim_ops.h"

ifndef LINUXBIOS_VERSION

#include "io.h"

else

#include <sys/io.h>

```

-#endif

#ifdef IN_MODULE
#include "xf86_ansi.h"
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
- return inb(addr);
+ return 0;
}

/*****
@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);
- return inw(addr);
+ return 0;
}

/*****
@@ -250,7 +245,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inl %#04x \n", addr);
- return inl(addr);
+ return 0;
}

/*****
@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outw %#04x -> %#04x \n", val, addr);
- outw(val, addr);
return;
}

@@ -295,7 +288,6 @@

```

```

DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);

- outl(val, addr);
return;
}

```

@@ -405,6 +397,6 @@

```

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}

```

Index: include/x86emu/debug.h

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7

Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

@@ -40,8 +40,6 @@

#ifndef __X86EMU_DEBUG_H

#define __X86EMU_DEBUG_H

//#define DEBUG 0

#undef DEBUG

/*----- Macros and type definitions -----*/

/* checks to be enabled for "runtime" */

@@ -78,6 +76,8 @@

define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)

define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)

define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)

+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)

+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)

define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)

define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)

define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)

@@ -96,6 +96,8 @@

define DEBUG_SYSINT() 0

define DEBUG_TRACECALL() 0

define DEBUG_TRACECALLREGS() 0

+# define DEBUG_TRACEJMP()

```

0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs(); \
if (DEBUG_TRACECALL()) \
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v) \
+# define RETURN_TRACE(u,v,w,x,s) \
if (DEBUG_TRACECALLREGS()) \
    x86emu_dump_regs(); \
if (DEBUG_TRACECALL()) \
- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s) \
+ if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifndef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E)NE Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000

```



```

@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS   |\
    SYSMODE_SEGOVR_SS   |\
    SYSMODE_PREFIX_DATA |\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR  |\
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH      0x1
#define INTR_ASYNCH     0x2
@@ -274,9 +278,9 @@
    */
    u32                mode;
    volatile int        intr; /* mask of pending interrupts */
- int                  debug;
+ volatile int         debug;
#ifdef DEBUG
- int                  check;
+ int                  check;
    u16                 saved_ip;
    u16                 saved_cs;
    int                 enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
-0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F    0x010000
+#define DEBUG_TRACEJMP_F      0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F            (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

```

```
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}          /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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-- Wolfgang Denk

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-- Wolfgang Denk

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```
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```

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```

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Full name	SPDX Identifier	OSI Approved	File name	URI
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=====

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BSD 3-clause "New" or "Revised" License	BSD-3-Clause	Y	bsd-3-clause.txt	http://spdx.org/licenses/BSD-3-Clause#licenseText
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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```
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```

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```
# *
```

```
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```

```
# * IBM Corporation - initial implementation
```

```
# *****/
```

```
#!/bin/bash
```

```
#set -x
```

```
#set -e
```

```
SVN=`which svn`
```

```
PATCH=`which patch`
```

```

DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
    echo "subversion executable not found!"
    exit -1
fi
if [ ! -x $PATCH ]; then
    echo "patch executable not found!"
    exit -1
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking
out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

```

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Version 3, 29 June 2007

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```
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```

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Version 2, June 1991

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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*

* @(#)mman.h 8.2 (Berkeley) 1/9/95

* \$FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp \$

*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemtened MAP_INHERIT */

#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemtened MAP_NOEXTEND

*/

```

#define TARGET_FREEBSD_MAP_STACK    0x0400 /* region grows down, like a stack */
#define
TARGET_FREEBSD_MAP_NOSYNC    0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK    0x1ff7

/*   $NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp $   */

/*-
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 *
 *   @(#)mman.h    8.2 (Berkeley) 1/9/95
 */
#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED    0x0400 /* attempt
 *   hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED    0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK    0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK    0x3ff7

```

/* \$OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp \$ */

/* \$NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp \$ */

/*-

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*

* @(#)mman.h 8.1 (Berkeley) 6/2/93

*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */

#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */

#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX

#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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Default configuration for sparc-bsd-user

/* \$OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp \$ */

/* \$NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp \$ */

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*

* @(#)errno.h 8.5 (Berkeley) 1/21/94

*/

```
#define TARGET_EPERM      1      /* Operation not permitted */
#define TARGET_ENOENT    2      /* No such file or directory */
#define TARGET_ESRCH     3      /* No such process */
#define TARGET_EINTR     4      /* Interrupted system call */
#define TARGET_EIO       5      /* Input/output error */
#define TARGET_ENXIO     6      /* Device not configured */
#define TARGET_E2BIG     7      /* Argument list too long */
#define TARGET_ENOEXEC   8      /* Exec format error */
#define TARGET_EBADF     9      /* Bad file descriptor */
#define TARGET_ECHILD   10     /* No child processes */
#define TARGET_EDEADLK  11     /* Resource deadlock avoided */
                                /* 11 was EAGAIN */
#define
TARGET_ENOMEM      12     /* Cannot allocate memory */
#define TARGET_EACCES  13     /* Permission denied */
#define TARGET_EFAULT  14     /* Bad address */
#define TARGET_ENOTBLK 15     /* Block device required */
#define TARGET_EBUSY   16     /* Device busy */
#define TARGET_EEXIST   17     /* File exists */
#define TARGET_EXDEV    18     /* Cross-device link */
#define TARGET_ENODEV   19     /* Operation not supported by device */
#define TARGET_ENOTDIR  20     /* Not a directory */
#define TARGET_EISDIR   21     /* Is a directory */
#define TARGET_EINVAL   22     /* Invalid argument */
#define TARGET_ENFILE   23     /* Too many open files in system */
#define TARGET_EMFILE   24     /* Too many open files */
#define TARGET_ENOTTY   25     /*
Inappropriate ioctl for device */
#define TARGET_ETXTBSY  26     /* Text file busy */
#define TARGET_EFBIG    27     /* File too large */
#define TARGET_ENOSPC   28     /* No space left on device */
#define TARGET_ESPIPE   29     /* Illegal seek */
#define TARGET_EROFS    30     /* Read-only file system */
#define TARGET_EMLINK   31     /* Too many links */
#define TARGET_EPIPE    32     /* Broken pipe */

/* math software */
#define TARGET_EDOM     33     /* Numerical argument out of domain */
```

```

#define TARGET_ERANGE      34      /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN      35      /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN  /* Operation would block */
#define TARGET_EINPROGRESS 36      /* Operation now in progress */
#define TARGET_EALREADY
37      /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38      /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39    /* Destination address required */
#define TARGET_EMSGSIZE 40      /* Message too long */
#define TARGET_EPROTOTYPE 41     /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42    /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45     /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46   /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47   /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48     /* Address already in use */
#define
TARGET_EADDRNOTAVAIL 49      /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50      /* Network is down */
#define TARGET_ENETUNREACH 51    /* Network is unreachable */
#define TARGET_ENETRESET 52     /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53   /* Software caused connection abort */
#define TARGET_ECONNRESET 54    /* Connection reset by peer */
#define TARGET_ENOBUFS 55       /* No buffer space available */
#define TARGET_EISCONN 56      /* Socket is already connected */
#define TARGET_ENOTCONN 57     /* Socket is not connected */
#define TARGET_ESHUTDOWN 58     /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59   /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60     /* Operation timed
out */
#define TARGET_ECONNREFUSED 61   /* Connection refused */

#define TARGET_ELOOP 62        /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63  /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64     /* Host is down */
#define TARGET_EHOSTUNREACH 65  /* No route to host */
#define TARGET_ENOTEMPTY 66     /* Directory not empty */

/* quotas & mush */

```

```

#define TARGET_EPROCLIM 67      /* Too many processes */
#define TARGET_EUSERS      68      /* Too many users */
#define TARGET_EDQUOT      69      /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE      70      /* Stale NFS file handle */
#define TARGET_EREMOTE      71      /* Too many levels of remote in path */
#define TARGET_EBADRPC      72      /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
    73      /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74      /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75      /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76      /* Bad procedure for program */

#define TARGET_ENOLCK      77      /* No locks available */
#define TARGET_ENOSYS      78      /* Function not implemented */

#define TARGET_EFTYPE      79      /* Inappropriate file type or format */
#define TARGET_EAUTH      80      /* Authentication error */
#define TARGET_ENEEDAUTH    81      /* Need authenticator */
#define TARGET_EIPSEC      82      /* IPsec processing failure */
#define TARGET_ENOATTR      83      /* Attribute not found */
#define TARGET_EILSEQ      84      /* Illegal byte sequence */
#define TARGET_ENOMEDIUM    85      /* No medium found */
#define TARGET_EMEDIUMTYPE 86      /* Wrong Medium Type */
#define TARGET_EOVERFLOW    87      /* Conversion overflow */
#define TARGET_ECANCELED    88      /* Operation canceled */
#define TARGET_EIDRM      89      /* Identifier removed */
#define TARGET_ENOMSG      90      /* No message of desired type */
#define TARGET_ELAST      90      /* Must be equal largest errno */

```

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```
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 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd,
```

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__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
  "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
  "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL
},

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{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
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{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
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{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
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{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%x, %x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\", %x, %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,

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"profil", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
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{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setregid,
"setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR shutdown, "shutdown", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
"sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },

```

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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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# * All rights reserved.
# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# *   IBM Corporation - initial implementation
# *****

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $$@ ; done
# Default configuration for sparc64-bsd-user
# *****
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
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# * which accompanies this distribution, and is available at
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# *
# * Contributors:
# *   IBM Corporation - initial implementation
# *****

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)

```

```

export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
-I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS =
debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5

```

```

#define TARGET_OPENBSD_NR_close      6
#define TARGET_OPENBSD_NR_wait4     7
#define TARGET_OPENBSD_NR_link      9
#define TARGET_OPENBSD_NR_unlink    10
#define TARGET_OPENBSD_NR_chdir     12
#define TARGET_OPENBSD_NR_fchdir    13
#define TARGET_OPENBSD_NR_mknod     14
#define TARGET_OPENBSD_NR_chmod     15
#define TARGET_OPENBSD_NR_chown     16
#define TARGET_OPENBSD_NR_break     17
#define TARGET_OPENBSD_NR_getpid    20
#define TARGET_OPENBSD_NR_mount     21
#define TARGET_OPENBSD_NR_unmount   22
#define TARGET_OPENBSD_NR_setuid
    23
#define TARGET_OPENBSD_NR_getuid     24
#define TARGET_OPENBSD_NR_geteuid    25
#define TARGET_OPENBSD_NR_ptrace    26
#define TARGET_OPENBSD_NR_recvmmsg   27
#define TARGET_OPENBSD_NR_sendmsg    28
#define TARGET_OPENBSD_NR_recvfrom   29
#define TARGET_OPENBSD_NR_accept     30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access     33
#define TARGET_OPENBSD_NR_chflags    34
#define TARGET_OPENBSD_NR_fchflags   35
#define TARGET_OPENBSD_NR_sync       36
#define TARGET_OPENBSD_NR_kill       37
#define TARGET_OPENBSD_NR_getppid    39
#define TARGET_OPENBSD_NR_dup        41
#define TARGET_OPENBSD_NR_opipe      42
#define TARGET_OPENBSD_NR_getegid    43
#define TARGET_OPENBSD_NR_profil     44
#define TARGET_OPENBSD_NR_ktrace     45
#define TARGET_OPENBSD_NR_sigaction  46
#define TARGET_OPENBSD_NR_getgid     47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin   49
#define TARGET_OPENBSD_NR_setlogin
    50
#define TARGET_OPENBSD_NR_acct       51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl     54
#define TARGET_OPENBSD_NR_reboot     55
#define TARGET_OPENBSD_NR_revoke     56
#define TARGET_OPENBSD_NR_symlink    57

```

```

#define TARGET_OPENBSD_NR_readlink  58
#define TARGET_OPENBSD_NR_execve    59
#define TARGET_OPENBSD_NR_umask     60
#define TARGET_OPENBSD_NR_chroot    61
#define TARGET_OPENBSD_NR_vfork     66
#define TARGET_OPENBSD_NR_sbrk      69
#define TARGET_OPENBSD_NR_sstk      70
#define TARGET_OPENBSD_NR_munmap    73
#define TARGET_OPENBSD_NR_mprotect  74
#define TARGET_OPENBSD_NR_madvise   75
#define TARGET_OPENBSD_NR_mincore   78
#define TARGET_OPENBSD_NR_getgroups  79
#define TARGET_OPENBSD_NR_setgroups  80
#define TARGET_OPENBSD_NR_getpgrp   81
#define TARGET_OPENBSD_NR_setpgid   82
#define TARGET_OPENBSD_NR_setitimer  83
#define TARGET_OPENBSD_NR_getitimer
    86
#define TARGET_OPENBSD_NR_dup2      90
#define TARGET_OPENBSD_NR_fcntl     92
#define TARGET_OPENBSD_NR_select    93
#define TARGET_OPENBSD_NR_fsync     95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket    97
#define TARGET_OPENBSD_NR_connect   98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind     104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen   106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv    120
#define TARGET_OPENBSD_NR_writev   121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown   123
#define TARGET_OPENBSD_NR_fchmod   124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock    131
#define TARGET_OPENBSD_NR_mkfifo   132
#define TARGET_OPENBSD_NR_sendto   133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135

```

```

#define TARGET_OPENBSD_NR_mkdir    136
#define TARGET_OPENBSD_NR_rmdir    137
#define TARGET_OPENBSD_NR_utimes   138
#define TARGET_OPENBSD_NR_adjtime  140
#define TARGET_OPENBSD_NR_setsid   147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc   155
#define TARGET_OPENBSD_NR_getfh    161
#define TARGET_OPENBSD_NR_sysarch  165
#define TARGET_OPENBSD_NR_pread    173
#define TARGET_OPENBSD_NR_pwrite   174
#define TARGET_OPENBSD_NR_setgid   181
#define TARGET_OPENBSD_NR_setegid  182
#define TARGET_OPENBSD_NR_seteuid  183
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#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap      197
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#define TARGET_OPENBSD_NR_truncate  200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl  202
#define TARGET_OPENBSD_NR_mlock     203
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#define TARGET_OPENBSD_NR_futimes   206
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#define TARGET_OPENBSD_NR_xfspioctl 208
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#define TARGET_OPENBSD_NR_msgrcv   227
#define TARGET_OPENBSD_NR_shmat     228
#define TARGET_OPENBSD_NR_shmdt    230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime 233
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```

#define TARGET_OPENBSD_NR_rfork    251
#define TARGET_OPENBSD_NR_poll    252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown   254
#define TARGET_OPENBSD_NR_getsid   255
#define TARGET_OPENBSD_NR_msync    256
#define TARGET_OPENBSD_NR_pipe    263
#define TARGET_OPENBSD_NR_fhopen   264
#define TARGET_OPENBSD_NR_preadv   267
#define TARGET_OPENBSD_NR_pwritev  268
#define TARGET_OPENBSD_NR_kqueue   269
#define TARGET_OPENBSD_NR_kevent   270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid
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#define TARGET_OPENBSD_NR_mquery    286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget    289
#define TARGET_OPENBSD_NR_semop     290
#define TARGET_OPENBSD_NR_stat      291
#define TARGET_OPENBSD_NR_fstat     292
#define TARGET_OPENBSD_NR_lstat     293
#define TARGET_OPENBSD_NR_fhstat    294
#define TARGET_OPENBSD_NR___semctl  295
#define TARGET_OPENBSD_NR_shmctl    296
#define TARGET_OPENBSD_NR_msgctl    297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid  299
#define TARGET_OPENBSD_NR_thrslsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit   302
#define TARGET_OPENBSD_NR_thrsgdivert 303
#define TARGET_OPENBSD_NR___getcwd  304
#define TARGET_OPENBSD_NR_adjfreq   305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs    307
#define TARGET_OPENBSD_NR_fstatfs   308
#define TARGET_OPENBSD_NR_fhstatfs
    309

```

```

/* syscall flags from machine/trap.h */

```

/* \$OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp \$ */

/* \$NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp \$ */

/*

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*

*/

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */

#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

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Default configuration for x86_64-bsd-user

1.18 open-ldap 2.4.46

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1.19 gawk 4.2.1

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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The

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```
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1.20 libtool 2.4.6

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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 "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.

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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.

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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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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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- 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.
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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any

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facilities. This must be distributed under the terms of the Sections above.

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer

can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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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.

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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.

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section 10

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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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1.25 apache-http-server 2.4.34

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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>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
```

```
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> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <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;</a></p>
</div>
```

```
<p class="centered">Apache License<br />
```

Version 2.0, January 2004

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```
<div class="example"><pre>Copyright [yyyy] [name of copyright owner]
```

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
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```
<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 2018 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>
# GENERATED FROM XML -- DO NOT EDIT

```

URI: license.html.en

Content-Language: en

Content-type: text/html; charset=ISO-8859-1

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```
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 *
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```
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*****
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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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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)

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@enumerate a

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@item

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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@page

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```
/* _setjmp is implemented in setjmp.S */
```

```
/* setjmp is implemented in setjmp.S */
```

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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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Any executables

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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.

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When a "work that uses the Library" uses material from a header file

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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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END OF TERMS AND CONDITIONS

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That's all there is to it!

1.29 gzip 1.9

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TERMS AND CONDITIONS

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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.

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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.

6. Conveying Non-Source Forms.

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.

- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a

written offer, valid for at least three years

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long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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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1.30 python 2.7.15

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History and License

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 <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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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1.6.1	1.6	2001	CNRI	no
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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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The `:mod:`socket`` module uses the
functions, `:func:`getaddrinfo``, and
`:func:`getnameinfo``, which are coded in separate source files from the WIDE
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

Appendix A. It does not include

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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strtod
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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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1.6.1	1.6	2001	CNRI	yes (2)
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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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

Appendix A. It does not include

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `:mod:`xmlrpc.lib`` module contains the following notice::

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strtod
and dtoa

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1.31 net-snmp 5.8

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1.32 free-type 2.9.1

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#
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/bdfplib.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
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#
src/tools/apinames.c
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*

* \$Id\$

*/

```
#include "db_config.h"
```

```
#include
```

```
"db_int.h"
```

```
#include "dbinc/blob.h"
```

```
#include "dbinc/crypto.h"
```

```
#include "dbinc/db_page.h"
```

```
#include "dbinc/db_swap.h"
```

```
#include "dbinc/btree.h"
```

```
#include "dbinc/lock.h"
```

```
#include "dbinc/mp.h"
```

```
#include "dbinc/partition.h"
```

```
#include "dbinc/fop.h"
```

```
static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));
```

```
/*
```

```
* __bam_open --
```

```
* Open a btree.
```

```
*
```

```
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
```

```
* PUBLIC: DB_TXN *, const char *, db_pgno_t, u_int32_t));
```

```
*/
```

```
int
```

```
__bam_open(dbp, ip, txn, name, base_pgno, flags)
```

```
DB *dbp;
```

```
DB_THREAD_INFO *ip;
```

```
DB_TXN *txn;
```

```
const char *name;
```

```
db_pgno_t base_pgno;
```

```
u_int32_t flags;
```

```
{
```

```
BTREE *t;
```

```
COMPQUIET(name, NULL);
```

```
t = dbp->bt_internal;
```

```
/*
```

```

* We don't permit the user to specify a prefix routine if they didn't
* also specify a comparison routine, they can't know enough about our
* comparison routine to get it right.
*/
if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
{
__db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
return (EINVAL);
}

/*
* Verify that the bt_minkey value specified won't cause the
* calculation of ovflsize to underflow [#2406] for this pagesize.
*/
if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
__db_errx(dbp->env, DB_STR_A("1007",
"bt_minkey value of %lu too high for page size of %lu",
"%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
return (EINVAL);
}

/* Start up the tree. */
return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
DB *dbp;
const char *name;
BTMETA *btm;
{
ENV *env;
u_int32_t vers;
int ret;

env = dbp->env;
ret = 0;

/*
* At this point, all we know

```

```

is that the magic number is for a Btree.
* Check the version, the database may be out of date.
*/
vers = btm->dbmeta.version;
if (F_ISSET(dbp, DB_AM_SWAP))
    M_32_SWAP(vers);
switch (vers) {
case 6:
case 7:
    __db_errx(env, DB_STR_A("1008",
        "%s: btree version %lu requires a version upgrade",
        "%s %lu"), name, (u_long)vers);
    return (DB_OLD_VERSION);
case 8:
case 9:
case 10:
    break;
default:
    __db_errx(env, DB_STR_A("1009",
        "%s: unsupported btree version: %lu", "%s %lu"),
        name, (u_long)vers);
    return (EINVAL);
}

/* Swap the page if we need to. */
if (F_ISSET(dbp, DB_AM_SWAP) &&
    (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
    return (ret);

/*
* Check application info against metadata info, and set info, flags,
* and type based on metadata info.
*/
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
    return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
    if (dbp->type
        == DB_BTREE)
        goto wrong_type;
    dbp->type = DB_RECNO;
    DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
    if (dbp->type == DB_RECNO)
        goto wrong_type;
    dbp->type = DB_BTREE;
    DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

```

```

}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
    F_SET(dbp, DB_AM_DUP);
else
    if (F_ISSET(dbp, DB_AM_DUP)) {
        __db_errx(env, DB_STR_A("1010",
"%s: DB_DUP specified to open method but not set in database",
"%s"), name);
        return (EINVAL);
    }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
    if (dbp->type != DB_BTREE)
        goto wrong_type;
    F_SET(dbp, DB_AM_RECNUM);

    if ((ret = __db_fcchk(env,
        "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
        return (ret);
    } else
    if (F_ISSET(dbp, DB_AM_RECNUM)) {
        __db_errx(env, DB_STR_A("1011",
"%s: DB_RECNUM specified to open method but not set in database",
"%s"), name);
        return (EINVAL);
    }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
    if (dbp->type != DB_RECNO)
        goto
wrong_type;
    F_SET(dbp, DB_AM_FIXEDLEN);
    } else
    if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
        __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
"%s"), name);
        return (EINVAL);
    }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
    if (dbp->type != DB_RECNO)
        goto wrong_type;
    F_SET(dbp, DB_AM_RENUMBER);
    } else
    if (F_ISSET(dbp, DB_AM_RENUMBER)) {
        __db_errx(env, DB_STR_A("1013",

```



```

    "%s: DB_RENUMBER specified to open method but not set in database",
    "%s"), name);
return (EINVAL);
}

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
    F_SET(dbp, DB_AM_SUBDB);
else
    if (F_ISSET(dbp, DB_AM_SUBDB)) {
        __db_errx(env, DB_STR_A("1014",
            "%s: multiple databases specified but not supported by file",
            "%s"), name);
        return (EINVAL);
    }

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
    if (dbp->dup_compare == NULL)
        dbp->dup_compare = __bam_defcmp;
    F_SET(dbp, DB_AM_DUPSORT);
}
else
    if (dbp->dup_compare != NULL) {
        __db_errx(env, DB_STR_A("1015",
            "%s: duplicate sort specified but not supported in database",
            "%s"), name);
        return (EINVAL);
    }
}

#ifdef HAVE_COMPRESSION
if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
    F_SET(dbp, DB_AM_COMPRESS);
    if ((BTREE *)dbp->bt_internal != NULL &&
        !DB_IS_COMPRESSED(dbp) &&
        (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
        return (ret);
} else {
    if ((BTREE *)dbp->bt_internal != NULL &&
        DB_IS_COMPRESSED(dbp)) {
        __db_errx(env, DB_STR_A("1016",
            "%s: compression specified to open method but not set in database",
            "%s"), name);
        return (EINVAL);
    }
}
#else
if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
    __db_errx(env, DB_STR_A("1017",
        "%s: compression support has not been compiled in", "%s"),

```

```

    name);
    return (EINVAL);
}
#endif

/* Set the page size. */
dbp->pgsize = btm->dbmeta.pagesize;

dbp->blob_threshold = btm->blob_threshold;
GET_BLOB_FILE_ID(env,
btm, dbp->blob_file_id, ret);
if (ret != 0)
    return (ret);
GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
if (ret != 0)
    return (ret);
/* Blob databases must be upgraded. */
if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
    __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
    name);
    return (EINVAL);
}
#endif HAVE_64BIT_TYPES
if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
    __db_errx(env, DB_STR_A("1199",
"%s: blobs require 64 integer compiler support.", "%s"),
    name);
    return (EINVAL);
}
#endif

/* Copy the file's ID. */
memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

return (0);

wrong_type:
if (dbp->type == DB_BTREE)
    __db_errx(env, DB_STR("1018",
"open method type is Btree, database type is Recno"));
else
    __db_errx(env, DB_STR("1019",
"open method type is Recno, database type is Btree"));
return
(EINVAL);
}

```

```

/*
 * __bam_read_root --
 * Read the root page and check a tree.
 *
 * PUBLIC: int __bam_read_root __P((DB *,
 * PUBLIC:   DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
 */
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
DB *dbp;
DB_THREAD_INFO *ip;
DB_TXN *txn;
db_pgno_t base_pgno;
u_int32_t flags;
{
    BTMETA *meta;
    BTREE *t;
    DBC *dbc;
    DB_LOCK metalock;
    DB_MPOOLFILE *mpf;
    int ret, t_ret;

    COMPQUIET(flags, 0);

    meta = NULL;
    t = dbp->bt_internal;
    LOCK_INIT(metalock);
    mpf = dbp->mpf;
    ret = 0;

    /* Get a cursor. */
    if ((ret = __db_cursor(dbp, ip, txn, &dbc,
        F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
        return (ret);

    /* Get the metadata page. */
    if ((ret =
        __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
        goto err;
    if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
        goto err;

    /*
     * If the magic number is set, the tree has been
     created. Correct
     * any fields that may not be right. Note, all of the local flags
     * were set by DB->open.
     */

```

```

* Otherwise, we'd better be in recovery or abort, in which case the
* metadata page will be created/initialized elsewhere.
*
* Ignore the last_pgno on the metadata page for snapshot transactions:
* we may be reading an old version of the page, and we've already
* set last_pgno from the file size. The only time this would matter
* is if we don't have ftruncate and there are some free pages at the
* end of the file: we could end up with holes.
*/
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
    t->bt_minkey = meta->minkey;
    t->re_pad = (int)meta->re_pad;
    t->re_len = meta->re_len;

    t->bt_meta = base_pgno;
    t->bt_root = meta->root;
    t->revision = dbp->mpf->mpf->revision;
    if (PGNO(meta) == PGNO_BASE_MD &&
        !F_ISSET(dbp, DB_AM_RECOVER) &&
        (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
            __memp_set_last_pgno(mpf,
meta->dbmeta.last_pgno)) != 0)
        goto err;
    } else {
        DB_ASSERT(dbp->env,
            IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
    }

    /*
    * !!!
    * If creating a subdatabase, we've already done an insert when
    * we put the subdatabase's entry into the master database, so
    * our last-page-inserted value is wrongly initialized for the
    * master database, not the subdatabase we're creating. I'm not
    * sure where the *right* place to clear this value is, it's not
    * intuitively obvious that it belongs here.
    */
    t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
    if (meta != NULL && (t_ret = __memp_fput(mpf,
        ip, meta, dbc->priority)) != 0 && ret == 0)
        ret = t_ret;
    if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
        ret = t_ret;

    if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
        ret = t_ret;

```

```

return (ret);
}

/*
 * __bam_init_meta --
 *
 * Initialize a btree meta-data page. The following fields may
 * need
 * to be updated later: last_pgno, root.
 */
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
DB *dbp;
BTMETA *meta;
db_pgno_t pgno;
DB_LSN *lsnp;
{
    BTREE *t;
#ifdef HAVE_PARTITION
    DB_PARTITION *part;
#endif
    ENV *env;

    env = dbp->env;
    t = dbp->bt_internal;

    memset(meta, 0, sizeof(BTMETA));
    meta->dbmeta.lsn = *lsnp;
    meta->dbmeta.pgno = pgno;
    meta->dbmeta.magic = DB_BTREEMAGIC;
    meta->dbmeta.version = DB_BTREEVERSION;
    meta->dbmeta.pagesize = dbp->pagesize;
    if (F_ISSET(dbp, DB_AM_CHKSUM))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
    if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
        meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
        DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
        meta->crypto_magic = meta->dbmeta.magic;
    }
    meta->dbmeta.type = P_BTREEMETA;
    meta->dbmeta.free = PGNO_INVALID;
    meta->dbmeta.last_pgno = pgno;
    if (F_ISSET(dbp, DB_AM_DUP))
        F_SET(&meta->dbmeta, BTM_DUP);
    if (F_ISSET(dbp, DB_AM_FIXEDLEN))
        F_SET(&meta->dbmeta,
            BTM_FIXEDLEN);
    if (F_ISSET(dbp, DB_AM_RECNUM))

```

```

F_SET(&meta->dbmeta, BTM_RECNUM);
if (F_ISSET(dbp, DB_AM_RENUMBER))
    F_SET(&meta->dbmeta, BTM_RENUMBER);
if (F_ISSET(dbp, DB_AM_SUBDB))
    F_SET(&meta->dbmeta, BTM_SUBDB);
if (dbp->dup_compare != NULL)
    F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
if (DB_IS_COMPRESSED(dbp))
    F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
if (dbp->type == DB_RECNO)
    F_SET(&meta->dbmeta, BTM_RECNO);
memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

meta->minkey = t->bt_minkey;
meta->re_len = t->re_len;
meta->re_pad = (u_int32_t)t->re_pad;
meta->blob_threshold = dbp->blob_threshold;
SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
if ((part = dbp->p_internal) != NULL) {
    meta->dbmeta.nparts = part->nparts;
    if (F_ISSET(part, PART_CALLBACK))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
    if (F_ISSET(part,
PART_RANGE))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
}
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed). The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:   DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int

```

```

__bam_new_file(dbp, ip, txn, fhp, name)
DB *dbp;
DB_THREAD_INFO *ip;
DB_TXN *txn;
DB_FH *fhp;
const char *name;
{
BTMETA *meta;
DBT pdbt;
DB_LSN lsn;
DB_MPOOLFILE *mpf;
DB_PGINFO pginfo;
ENV *env;
PAGE *root;
db_pgno_t pgno;
int ret, t_ret;
void *buf;

env = dbp->env;
mpf =
dbp->mpf;
root = NULL;
meta = NULL;
buf = NULL;

if (F_ISSET(dbp, DB_AM_INMEM)) {
/* Build the meta-data page. */
pgno = PGNO_BASE_MD;
if ((ret = __memp_fget(mpf, &pgno,
ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
return (ret);
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret =
__db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
goto err;
ret = __memp_fput(mpf, ip, meta, dbp->priority);
meta = NULL;
if (ret != 0)
goto err;

/* Build the root page. */
pgno = 1;
if ((ret = __memp_fget(mpf, &pgno,
ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
goto err;

```

```

P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
    goto err;
ret =
__memp_fput(mpf, ip, root, dbp->priority);
root = NULL;
if (ret != 0)
    goto err;
} else {
memset(&pdbt, 0, sizeof(pdbt));

/* Build the meta-data page. */
pginfo.db_pagesize = dbp->pgsize;
pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
pginfo.type = dbp->type;
pdbt.data = &pginfo;
pdbt.size = sizeof(pginfo);
if (dbp->blob_threshold) {
if ((ret = __blob_generate_dir_ids(dbp, txn,
    &dbp->blob_file_id)) != 0)
    return (ret);
}
if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
    return (ret);
meta = (BTMETA *)buf;
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret = __db_pgout(
    dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
    goto err;
if ((ret = __fop_write(env, txn, name, dbp->dirname,
    DB_APP_DATA, fhp,
    dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE)
? DB_LOG_NOT_DURABLE : 0)) != 0)
    goto err;
meta = NULL;

/* Build the root page. */
#ifdef DIAGNOSTIC
memset(buf, CLEAR_BYTE, dbp->pgsize);

```



```

#endif
root = (PAGE *)buf;
P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
    goto err;
if ((ret =
    __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
    fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
    goto err;
root = NULL;
}

err: if (buf != NULL)
    __os_free(env, buf);
else {
    if (meta != NULL &&
        (t_ret = __memp_fput(mpf, ip,
        meta, dbp->priority)) != 0 && ret == 0)
        ret = t_ret;
    if (root != NULL &&
        (t_ret = __memp_fput(mpf, ip,
        root, dbp->priority)) != 0 && ret == 0)
        ret = t_ret;
    }
return (ret);
}

/*
 * __bam_new_subdb --
 * Create a metadata page and a root page for a new btree.
 *
 * PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
 */
int
__bam_new_subdb(mdbp, dbp, ip, txn)
    DB *mdbp, *dbp;
    DB_THREAD_INFO *ip;
    DB_TXN *txn;
{
    BTMETA *meta;
    DBC *dbc;
    DB_LOCK metalock;
    DB_LSN lsn;
    DB_MPOOLFILE *mpf;

```

```

ENV *env;
PAGE *root;
int ret, t_ret;

env = mdbp->env;
mpf = mdbp->mpf;
dbc = NULL;
meta = NULL;
root = NULL;

if (dbp->blob_threshold) {
    if ((ret = __blob_generate_dir_ids(dbp, txn,
        &dbp->blob_sdb_id)) != 0)
        return (ret);
}

if ((ret = __db_cursor(mdbp, ip, txn,
    &dbc, CDB_LOCKING(env) ? DB_WRITECURSOR : 0)) != 0)
    return (ret);

/* Get, and optionally create the metadata page. */
if ((ret = __db_lget(dbc,
    0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
    goto err;
if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
    != 0)
    goto err;

/* Build meta-data page. */
lsn = meta->dbmeta.lsn;
__bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
    goto err;

/* Create and initialize a root page. */
if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
    goto err;
root->level = LEAFLEVEL;

if (DBENV_LOGGING(env) &&
    #if !defined(DEBUG_WOP)
    txn != NULL &&
    #endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,

```

```

    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
goto err;

meta->root = root->pgno;
if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
goto err;

/* Release the metadata and root pages. */
if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
goto err;
meta = NULL;
if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
goto err;
root = NULL;
err:
if
(meta != NULL)
if ((t_ret = __memp_fput(mpf, ip,
meta, dbc->priority)) != 0 && ret == 0)
ret = t_ret;
if (root != NULL)
if ((t_ret = __memp_fput(mpf, ip,
root, dbc->priority)) != 0 && ret == 0)
ret = t_ret;
if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
ret = t_ret;
if (dbc != NULL)
if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
ret = t_ret;
return (ret);
}

```

1.34 bind 9.11.4

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* `admin/check-style.sh`,
`admin/check-style-common.awk`,
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====
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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">

      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
      This Source Code Form is subject to the terms of the Mozilla Public
      License, v. 2.0. If a copy of the MPL was not distributed with this
      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.35 cpio 2.12

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1.36 ebttables 2.0.10

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1.37 libevent 2.1.8

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```

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cmd/krb5/slave/kpropd_rpc.c
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lib/libgss/gssd_pname_to_uid.c
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```

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            <a href="mitK5features.html" title="MIT Kerberos features"
                accesskey="P">previous</a> |
            <a href="copyright.html" title="Copyright"
                accesskey="N">next</a> |
            <a href="genindex.html"
title="General Index"
                accesskey="I">index</a> |
            <a href="search.html" title="Enter search criteria"
                accesskey="S">Search</a> |
            <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
        </div>

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</div>

</div>

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<div class="document">

<div class="documentwrapper">

<div class="bodywrapper">

<div class="body" role="main">

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<div class="highlight-default"><div class="highlight"><pre>lib<span
class="o">gssapi<span
class="n">genericgssapi_err_generic<span
class="o">.et</pre>

libgssapi<span
class="o">mechglue<span
class="n">g_accept_sec_context.c</pre>

libgssapi<span
class="o">mechglue<span
class="n">g_acquire_cred.c</pre>

lib<span
class="n">gssapimechglue<span
class="o">g_canon_name.c</pre>

libgssapi<span
class="o">mechglue<span
class="n">g_compare_name.c</pre>

libgssapi<span
class="o">mechglue<span
class="n">g_context_time.c</pre>

libgssapi<span
class="o">mechglue<span
class="n">g_delete_sec_context.c</pre>

lib<span
class="n">gssapimechglue<span
class="o">g_delete_sec_context.c</pre>

lib<span
class="n">gssapimechglue<span
class="o">g_delete_sec_context.c</pre>

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span class="o"></span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span><span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">iprop</span><span class="o">.</span><span class="n">x</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o">.</span><span class="n">h</span><span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span class="o"></span><span class="n">error_tables</span><span class="o"></span><span class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span><span class="n">kprop</span><span class="o"></span><span class="n">kpropd_rpc</span><span class="o">.</span><span class="n">c</span><span class="n">kprop</span><span class="o"></span><span class="n">kproplog</span><span class="o">.</span><span class="n">c</span></pre></div></div>
```

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  <input type="text" name="q" size="18" />
```

```
  <input type="submit" value="Go" />
```

```
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```

```
  <input type="hidden" name="area" value="default" />
```

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```

```
  </div>
```

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  <div class="clearer"></div>
```

```
</div>
```

```
</div>
```

```
<div class="footer-wrapper">
```

```
  <div class="footer" >
```

```
    <div class="right" ><i>Release: 1.17</i><br />
```

```
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```

```
  </div>
```

```
  <div class="left">
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```
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>Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
</div>
</div>
</div>

</body>
</html>
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
`src/lib/gssapi`, including the following files:

.. parsed-literal::

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:

.. parsed-literal::

```
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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```
/* *- mode: c; c-basic-offset: 4; indent-tabs-mode: nil *- */  
/*
```

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```



```

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  <title>Copyright &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
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  <link rel="copyright" title="Copyright" href="#" />
  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5license.html" title="MIT Kerberos License information"
          accesskey="P">previous</a> |
        <a href="build_this.html" title="How to build this documentation from the
source"
          accesskey="N">next</a> |
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          accesskey="I">index</a> |
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          accesskey="S">Search</a> |
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```

```
</div>
</div>
</div>
```

```
<div class="content-wrapper">
  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">
```

```

      <div class="section" id="copyright">
        <h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
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        information.</p>
      </div>
```

```

    </div>
  </div>
</div>
</div>
  <div class="sidebar">
    <h2>On this page</h2>
    <ul>
      <li><a class="reference internal" href="#">Copyright</a></li>
    </ul>
```

```

    <br/>
    <h2>Table of contents</h2>
    <ul>
      <li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
      <li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
      <li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
      <li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
      developers</a></li>
      <li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
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      href="formats/index.html">Protocols and file formats</a></li>
      <li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
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      the source</a></li>
```

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<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

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<br/>
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<h4>Search</h4>
<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>
```

```
<div class="footer-wrapper">
  <div class="footer" >
    <div class="right" ><i>Release: 1.17</i><br />
      &copy;; <a href="#">Copyright</a> 1985-2019, MIT.
    </div>
    <div class="left">

      <a href="index.html" title="Full Table of Contents"
        >Contents</a> |
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        >previous</a> |
      <a href="build_this.html" title="How to build this documentation from the source"
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        >Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
    </div>
  </div>
</div>
```

```
</body>
</html>
```

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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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```
# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
```

```
import os
import sys
import re
```

```
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)
```

```
def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
```

```
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
```

```
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first
line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license
```

```
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\s* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
```

```

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\s.*?\s*/',
", line)
        line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').rstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
    elif line.strip() != "":
        code_seen = True

    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

```

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@heading Appendix: How to Apply These Terms to Your New Programs

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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.

@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}

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@end smallexample

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:

```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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1.42 libdaemon 0.14

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1.44 json-c 0.13.1

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1.45 sudo 1.8.23

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew

Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.

McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes,
Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieuwsma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo

Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri

Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.46 net-tools 1.60

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1.47 gmp 6.1.2

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```
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```

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Version 3, 29 June 2007

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1.48 apr 1.6.3

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
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- *

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1.51 libffi 3.2.1

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1.52 c-ares 1.14.0

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1.53 ncurses 6.1

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.54 attr 2.4.47

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1.58 coreutils 8.30

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Less

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1.63 libusb 1.0.22

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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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(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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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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- 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.

<one line to give the library's name and a brief idea of what it does.>
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MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

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Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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"Copyright" also means copyright-like laws that apply to other kinds of

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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.

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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.

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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.

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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:

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it, and giving a relevant date.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your 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.

6. Conveying Non-Source Forms.

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.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.71 python 3.7.4

1.71.1 Available under license :

.. highlightlang:: none

.. _history-and-license:

History and License

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 <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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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0.9.0 thru 1.2	n/a	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	no	
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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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE

Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services

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Cookie management

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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SipHash24

The file `:file:Python/pyhash.c` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson
(<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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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.

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1.72 file 5.34

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

```
## End FreeBSD-specific setup
```

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1.73 gnutls 3.6.4

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## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
## By Mike Hamburg (Stanford University), 2009
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1.74 protobuf 3.6.1

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1.75 acpid 2.0.30

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```
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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
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```
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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1.76 elfutils 0.175

1.76.1 Available under license :

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```

```
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1.78 inotify-tools 3.14+git0+1df9af4d6c

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1.79 rrdtool 1.7.0

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Alan Lichty <alan_lichty with eli.net>

Alan Milligan <alan.milligan@last-bastion.net> Python bindings

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Andreas Krooomaa <andre with ml.ee>

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Aaron Gallagher <_ with habnab.it> MEDIAN operator
Benny Baumann <benbe with geshi.org> rrd_dump with callback support
Bernard Fischer <bfischer with syslog.ch> 64bit stuff, --alt-autoscale-max
Bernhard Fischer <rep dot dot dot nop with gmail.com> MMAP rewrite
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Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support
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Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes
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1.82 libpng 1.6.35

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1.83 boost 1.68.0

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Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- 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(agc@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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<!DOCTYPE html>

<html>

<head></head>

```
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
```

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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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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by ``.

1.84 libidn 1.35

1.84.1 Available under license :

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```

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```

```
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Ty Coon, President of Vice
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1.91 perl 5.24.4

1.91.1 Available under license :

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The End

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
license: <http://dev.perl.org/licenses/>
repository: <http://github.com/dagolden/module-build/>
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```

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```

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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
```

```
That's all there is to it!
#!perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people

working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current
    year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
```

```
# Otherwise simply check that the two copyright dates match each other:
```

```
else
```

```
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
```

```
done_testing;
```

```
sub readme_year
```

```
# returns the latest copyright year from the top-level README file
```

```
{
```

```
    open my $readme, '<', './README' or die "Opening README failed: $!";
```

```
# The copyright message is the first paragraph:
```

```
    local $/ = "";
```

```
    my $copyright_msg = <$readme>;
```

```
    my ($year) = $copyright_msg =~ /\b(\d{4,})/s
```

```
        or die "Year not found in README copyright message '$copyright_msg'";
```

```
$year;  
}
```

```
sub v_year  
# returns the latest copyright year shown in perl -v  
{  
  
my $output = runperl switches => ['-v'];  
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i  
    or die "Copyright statement not found in perl -v output '$output'";  
  
$year;  
}
```

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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
Ty Coon, President of Vice

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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) <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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.94 libgpg-error 1.32

1.94.1 Available under license :

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Version 2, June 1991

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To protect your rights, we need to make restrictions that forbid

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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The precise terms and conditions for copying, distribution and modification follow.

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is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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

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.

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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.)

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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 2.1, February 1999

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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.

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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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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.

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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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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:

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- 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.

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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.

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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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 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.)

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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.

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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1.96 libunwind 1.2-rc1

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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.

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.

^L

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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
> change until it was mentioned in the latest notes.
>=20
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> 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 <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,
> 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

1.99 beecrypt 4.2.1

1.99.1 Available under license :

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Version 2, June 1991

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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll

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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.
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```
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```

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1.103 dhcp 4.4.1

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

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* `admin/check-style.sh`,
`admin/check-style-common.awk`,
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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-->
```

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"  
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
xmlns:xi="http://www.w3.org/2001/XInclude"  
xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">  
  <xsl:param name="text"/>  
  <xsl:value-of select="$isc.copyright.leader"/>  
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```



```

<xsl:text>#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '#10;')"/>
<xsl:if test="translate($rest, '#9;#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param
name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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```

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1.104 bridgeutils 1.6

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1.105 avahi 0.7

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1.106 rpm 4.14.2

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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.

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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.

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.

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:

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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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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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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.

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Otherwise, if the work is a derivative of the Library, you may

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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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1.110 xfsprogs 4.18.0

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1.111 i2c-tools 4.0

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man/bitstring.3bsd
man/errc.3bsd
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man/reallocarray.3bsd
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man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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src/arc4random_uniform.c
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1.113 libvirt 4.7.0

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```
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```
## *-makefile-*  
## Copyright (C) 2016 and later: Unicode, Inc. and others.  
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
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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
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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57.1

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```

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```
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1.116 e2fsprogs 1.44.3

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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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```
<one line to give the program's name and a brief idea of what it does.>  
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```

```
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```

```
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```

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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY;  
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under certain conditions; type `show c' for details.
```

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```
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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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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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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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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 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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.117 dtc 1.4.7

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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1.118 libseccomp 2.3.3

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1.122 iputils 20180629

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1.127 iproute 4.19.0

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1.128 kmod 25+git0+aca4eca103

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1.129 mdadm 4.1

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```

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<signature of Ty Coon>, 1 April 1989
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1.130 ncurses 6.1+20180630

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-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
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1.131 pigz 2.4

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1.132 smartmontools 6.6

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Cordys R&D BV

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1.135 sysstat 11.7.4

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```
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```
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Any

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```
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```

The hypothetical commands

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Ty Coon, President of Vice
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ASN.1 library for Python

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```

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: maxdepth: 1

```

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms

of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::  
    :maxdepth: 2  
  
    /pyasn1/contents
```

Use case

```
.. toctree::  
    :maxdepth: 2  
  
    /example-use-case
```

Download & Install

```
.. toctree::  
    :maxdepth: 2
```

/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

/changelog

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```
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```

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Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`_` or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_` mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>`_ by Olivier Dubuisson

* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

* Standards compliant BER/CER/DER codecs

* Dumps/loads ASN.1 structures from Python types

- * 100% Python, works with Python 2.4 up to Python 3.7
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
```

```

NamedType('id', Integer()),
OptionalNamedType(
 'room', Integer()).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
DefaultedNamedType(
 'house',
Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python

```



```

>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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1.139 pycparser 2.18

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pycparser -- A C parser in Python

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1.140 ntp 4.2.8p15

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52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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<one line to give the program'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.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) by Bruce Korb - all rights reserved
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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.141 traceroute 2.1.0

1.141.1 Available under license :

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Version 2, June 1991

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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.

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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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Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of

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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.

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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

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1.146 redis 3.5.3

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather
- lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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*

* M. Welsh, 6 July 1996

*

*

*/

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1.148 multipart-parser-c NA

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*/
```

Found in path(s):

* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

1.149 glib 2.60.4

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1.150 libarchive 3.4.3

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1.151 enum34 1.1.6

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1.152 idna 2.7

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```
"""
```

```
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
```

```
"""
```

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
    package_data = {
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite':
'tests',
}
```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

* /opt/cola/permits/1110765725_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

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1.153 python3-asn1crypto 0.24.0

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1.154 ptyprocess 0.6.0

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1.155 openssh 8.0p1

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*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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1.160 curl 7.61.0

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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
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1.162 shared-mime-info 1.1

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1.163 acl 2.2.52

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1.164 mpdecimal 2.4.2

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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1.169 pciutils 3.6.2

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1.170 cryptography 2.3

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1.171 pycparser 2.18-1.ph3

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1.172 kerberos 1.16.1

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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
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lib/krb5/kadm5/kadm_host_srv_names.c
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lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_export_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.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
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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/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.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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1.177 dmidecode 3.1

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1.178 golang 1.12.12

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package licensing

```
import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"  
)  
  
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
    url := c.baseURI  
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)  
  
    license := new(model.IssuedLicense)  
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
        return nil, err  
    }  
  
    return license, nil  
}  
  
// Check verifies that the license identified by the given key id is valid. Note that it does not  
// interrogate the contents of the license.  
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  
    keyID := license.KeyID  
    privateKey := license.PrivateKey  
  
    authorization, err := c.getAuthorization(ctx,  
    license)  
    if err != nil {  
        return nil, err  
    }  
  
    // TODO: Mason - replace this parseJWS with a non libtrust lib  
    signature, err := libtrust.ParseJWS(authorization)  
    if err != nil {
```

```

return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
return nil, errors.WithStack(err).With(errors.Fields{
    "key_id": keyID,
})
}

key := keys[0]

if !c.recognizedSigningKey(key) {
return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
})
}

```

```

}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
for _, publicKey := range c.publicKeys {
if key.KeyID() == publicKey.KeyID() {
return true
}
}
return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
"key_id": license.KeyID,
}, "decoding license authorization
failed")
}
return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}

generatedToken, err := generateToken(message, privateKey)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
return errors.Wrap(err, errors.Fields{"token": token})
}

```

```

}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token},
    "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed
```

```
// json blob.
```

```
type CheckResponse struct {  
    Expiration    time.Time `json:"expiration"`  
    Token         string   `json:"token"`  
    MaxEngines    int      `json:"maxEngines"`  
    ScanningEnabled bool     `json:"scanningEnabled"`  
    Type         string   `json:"licenseType"`  
    Tier         string   `json:"tier"`  
}
```

```
// IssuedLicense represents an issued license
```

```
type IssuedLicense struct {  
    KeyID        string `json:"key_id"`  
    PrivateKey   string `json:"private_key"`  
    Authorization string `json:"authorization"`  
}
```

```
// Valid returns true if the License is syntactically valid, false otherwise
```

```
func (l *IssuedLicense) Valid() (bool, string) {  
    if l.KeyID == "" {  
        return false, "empty key_id"  
    }  
}
```

```
    if l.PrivateKey == "" {  
        return false, "empty private_key"  
    }  
}
```

```
    if l.Authorization == "" {  
        return false, "empty authorization"  
    }  
}
```

```
    return true, ""  
}
```

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Common libraries shared by Prometheus Go components.

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package formatter

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
    "gotest.tools/assert"  
    is "gotest.tools/assert/cmp"  
)
```



```

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context Context
expected string
}{
// Errors
{
Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
Context{Format: NewSubscriptionsFormat("table", false)},
`NUM          OWNER          PRODUCT ID    EXPIRES          PRICING COMPONENTS
1            owner1          productid1    2020-01-01 10:00:00 +0000 UTC compstring
2            owner2          productid2    2020-01-01 10:00:00 +0000
UTC compstring
`,
},
{
Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
{
Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`,
},
// Raw Format
{
Context{Format: NewSubscriptionsFormat("raw", false)},

```

```

    `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
    Context{Format: NewSubscriptionsFormat("raw", true)},
    `license: id1
license: id2
`,
},
// Custom Format
{
    Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
    `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
    subscriptions
:= []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
        },
    },
    ComponentsString: "compstring",
}

```

```

},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
},
ComponentsString: "compstring",
},
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t,
is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
},
}
}
}

```

```

    },
    ComponentsString: "compstring",
  },
  {
    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
      ID: "id2",
      Name: "name2",
      ProductID: "productid2",
      Expires: &expiration,
      PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
          Name: "nodes",
          Value: 20,
        },
      },
    },
    ComponentsString: "compstring",
  },
}
expectedJSONs := []map[string]interface{}{
  {
    "Owner":
      "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name": "nodes",
        "value": float64(10),
      },
    },
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
  },
  {
    "Owner": "owner2",
    "ComponentsString": "compstring",
  },
}

```

```

"Expires":      "2020-01-01T10:00:00Z",
"DockerID":    "",
"Eusa":        nil,
"ID":          "id2",
"Start":       nil,
"Name":        "name2",
"Num":         float64(2),
"PricingComponents": []interface{}{
  map[string]interface{}{
    "name":
"nodes",
    "value": float64(20),
  },
},
"ProductID":   "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":       "",
"Summary":     "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{ }
err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
  t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
    t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{ }
  err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
  if
  err != nil {
    t.Fatal(err)
  }
  for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {

```

```
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
    t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
```

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Gocheck - A rich testing framework for Go

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package formatter

```
import (  
    "time"  
  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
)
```

```

const (
    defaultSubscriptionsTableFormat = "table
    {{{.Num}}}\t{{{.Owner}}}\t{{{.ProductID}}}\t{{{.Expires}}}\t{{{.ComponentsString}}}"
    defaultSubscriptionsQuietFormat = "{{{.Num}}};{{{.Summary}}}"

    numHeader      = "NUM"
    ownerHeader    = "OWNER"
    licenseNameHeader = "NAME"
    idHeader       = "ID"
    dockerIDHeader = "DOCKER ID"
    productIDHeader = "PRODUCT ID"
    productRatePlanHeader = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader    = "START"
    expiresHeader  = "EXPIRES"
    stateHeader    = "STATE"
    eusaHeader     = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
    switch source {
    case TableFormatKey:
        if quiet {
            {
                return defaultSubscriptionsQuietFormat
            }
            return defaultSubscriptionsTableFormat
        case RawFormatKey:
            if quiet {
                return `license: {{{.ID}}}`
            }
            return `license: {{{.ID}}}\nname: {{{.Name}}}\nowner: {{{.Owner}}}\ncomponents: {{{.ComponentsString}}}\n`
        }
        return Format(source)
    }
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext subContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
    }
    return nil
}

```

```

}
licenseCtx := licenseContext{ }
licenseCtx.header = map[string]string{
    "Num":      numHeader,
    "Owner":    ownerHeader,
    "Name":     licenseNameHeader,
    "ID":       idHeader,
    "DockerID": dockerIDHeader,
    "ProductID": productIDHeader,
    "ProductRatePlan": productRatePlanHeader,
    "ProductRatePlanID":
productRatePlanIDHeader,
    "Start":    startHeader,
    "Expires":  expiresHeader,
    "State":    stateHeader,
    "Eusa":     eusaHeader,
    "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    HeaderContext
    trunc bool
    l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return marshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {

```

```

return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}

func (c *licenseContext)
ProductRatePlan() string {
return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
return c.l.Expires
}

func (c *licenseContext) State() string {
return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
if spc == nil {
continue

```

```
}  
ret = append(ret, *spc)  
}  
return ret  
}
```

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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Gocheck - A rich testing framework for Go

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1.183 runc 1.0.0-rc5

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Go support for Protocol Buffers - Google's data interchange format

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1.184 six 1.11.0-3.ph3

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1.185 cffi 1.11.5

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1.186 python3-asn1crypto 0.24.0-1.ph3

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1.187 python-pip 9.0.3

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1.188 python-pip 19.0.3

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files `lex.py` and `yacc.py` individually and use them as modules. For example:

```
import lex
import yacc
```

The file `setup.py` can be used to install `ply` using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----  
# calc.py  
#  
# A simple calculator with variables.  
# -----  
  
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
    )  
  
# Tokens  
  
t_PLUS = r\+'  
t_MINUS = r\-'  
t_TIMES = r\*'  
t_DIVIDE = r\/'  
t_EQUALS = r\='  
t_LPAREN = r\('  
t_RPAREN = r\)''  
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
```

```

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = "\t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression"""
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

```

```

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py

1.190 urllib3 1.23

1.190.1 Available under license :

Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
 - * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
 - * NTLM-authenticated HTTPSConnectionPool
 - * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
 - * Client-verified SSL certificates for HTTPSConnectionPool
 - * Response gzip and deflate encoding support
 - * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
 - * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
 - * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
 - * Bugfixes, suggestions, Requests integration

- * georgemarshall <<http://github.com/georgemarshall>>
 - * Bugfixes, Improvements and Test coverage

- *
Thomas Kluyver <thomas@kluyver.me.uk>
 - * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
 - * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
 - * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
 - * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
 - * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
 - * Support for TLS SNI
 - * API unification of ssl_version/cert_reqs
 - * SSL fingerprint and alternative hostname verification

- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield
<<http://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<http://dbrgn.ch/>>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module

- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 - * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
 - * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
 - * HTTPHeaderDict and associated tests and docs
 - * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
 - * Added Timeout examples in docs

- * Arthur Grunseid <http://grunseid.com>
 - * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
 - * PEP8 Compliance and Linting
 - * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
 - * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
 - * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
 - * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
 - * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
 - * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
 - * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
 - * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
 - * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>
 - * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Jon Wayne Parrott <jonwayne@google.com>
- * App Engine environment tests.

- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jesse Shapiro <jesse@jesseshapiro.net>

- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <<http://dafoster.net/>>
- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors
backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>

- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 - * Update appveyor tox setup to use the 64bit python.

 - * Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
 - * Ongoing maintenance

 - * Dominique Leuenberger <dimstar@opensuse.org>
 - * Minor fixes in the test suite

 - * Will Bond <will@wbond.net>
 - * Add Python 2.6 support to ``contrib.securetransport``

 - * Aleksei Alekseev <alekseev.yeskela@gmail.com>
 - * using auth info for socks proxy

 - * Chris Wilcox <git@crwilcox.com>
 - * Improve contribution guide
 - * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

 - * [Your name or handle] <[email or website]>
 - * [Brief summary of your changes]
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1.191 python-requests 2.19.1

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1.192 ip-address 1.0.22-2.ph3

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1.193 python-pip 18.0

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History

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted

due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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- * Toshio Kuratomi

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List of Contributors

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Contributors

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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 <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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is 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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.194 supervisor 4.2.0

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/binary.py
*
/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/univ.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/base.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/cer/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/tagmap.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/calling.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/namedval.py
*
/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/test_binary.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/error.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/constraint.py

```

* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/__main__.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/string.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/debug.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/der/decoder.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/useful.py
 *
 /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/error.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/native/encoder.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/__main__.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedtype.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_char.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/test_encoder.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedval.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/decoder.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/integer.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/tag.py
 *
 /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/namedtype.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/base.py
 * /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_univ.py
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ASN.1 library for Python

![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)(https://pypi.org/project/pyasn1)

![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)(https://pypi.org/project/pyasn1/)

![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)(https://secure.travis-ci.org/etingof/pyasn1)

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blue.svg)(https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

* Standards compliant BER/CER/DER codecs

* Dumps/loads ASN.1 structures from Python types

* 100% Python, works with Python 2.4 up to Python 3.7

* MT-safe

* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of

high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house',
 Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```
```

It is in the spirit of ASN.1 to take abstract data description

and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected,
[open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or
post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>)
or try browsing pyasn1
[mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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ASN.1 library for Python

=====

```
.. toctree::  
    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on it was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>>

or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics` <<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::  
    :maxdepth: 2
```

/pyasn1/contents

Use case

```
.. toctree::  
    :maxdepth: 2
```

/example-use-case

Download & Install

```
.. toctree::  
    :maxdepth: 2
```

/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

/changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` _

and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` _ at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` _

or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` _

mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>` _ by Olivier Dubuisson

* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` _ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards`

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` _

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` _ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

1.197 hd-parm 9.56

1.197.1 Available under license :

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1.200 pango 1.42.4

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1.201 six 1.15.0-3.ph4

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1.204 syslog-ng 3.33.2

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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.)

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Any executables

containing that work also fall under Section 6,

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installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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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(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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1.215 python-certifi 2018.08.13

1.215.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.216 openssl 1.1.1q

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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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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The End

1.217 protobuf-c 1.3.1+git0+269771b4b4

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1.218 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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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).

*/

1.219 futures 3.3.0

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1.220 pyyaml 3.13

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1.221 netkit-ftp 20151004

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1.222 libjitterentropy 3.4.1

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1.225 sysv-init 2.86-1

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- * A rewrite
- of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
- * public domain.

1.226 sysv-init 2.88

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Send patches to `sysvinit-devel@nongnu.org`

The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>.
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1.227 mod-security 2.9.0

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1.231 rdma-cm 28.1

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

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Source: <https://github.com/linux-rdma/rdma-core>

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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 state 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>
```

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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
```

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, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.233 yajl 2.1.0

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Version 2.1, February 1999

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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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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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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

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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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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.

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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.

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