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### **Contents**

1.1 lua 5.1.5
1.1.1 Available under license
1.2 csrp 1.0
1.2.1 Available under license
1.3 cyrus-sasl 2.1.26
1.3.1 Available under license
1.4 net-snmp 5.7.3
1.4.1 Available under license
1.5 ethtool 4.2
1.5.1 Available under license
1.6 uclibc 0.9.33.2
1.6.1 Available under license
1.7 boost 1.60
1.7.1 Available under license
1.8 mbed-tls 2.3.0
1.8.1 Available under license
1.9 efence 2.2.3
1.9.1 Available under license
1.10 lighttpd 1.4.38
1.10.1 Available under license
1.11 ubi-utils 1.5.1
1.11.1 Available under license
1.12 libiconv 7
1.12.1 Available under license
1.13 stress 1.0.4

1.13.1 Available under license

#### 1.14 ntp 4.2.8p10

1.14.1 Available under license

#### 1.15 libxml2 2.9.7

1.15.1 Available under license

#### 1.16 rsync 3.1.3

1.16.1 Available under license

#### 1.17 bzip2 1.0.8

#### 1.18 zlib 1.2.8

1.18.1 Available under license

#### 1.19 rsyslog 8.39.0

1.19.1 Available under license

#### 1.20 openssh 7.8p1

1.20.1 Available under license

#### 1.21 pcre 8.38

1.21.1 Available under license

#### 1.22 busybox 1.29.3

1.22.1 Available under license

#### 1.23 ncurses 6.1

1.23.1 Available under license

#### 1.24 e2fsprogs 1.42.12

1.24.1 Available under license

#### 1.25 wpa-supplicant 2.3

1.25.1 Available under license

#### 1.26 popt 1.16-r6

1.26.1 Available under license

#### 1.27 hostapd 2.3

1.27.1 Available under license

#### 1.28 json-c 0.12

1.28.1 Available under license

#### 1.29 jansson 2.10

1.29.1 Available under license

#### 1.30 python 2.7.17

1.30.1 Available under license

#### 1.31 libpcap 1.9.1

1.31.1 Available under license

#### 1.32 libcap 2.25

1.32.1 Available under license

#### 1.33 perl 5.24.1

1.33.1 Available under license

#### 1.34 readline 8.0

1.34.1 Available under license

#### 1.35 tcpdump 4.9.3

1.35.1 Available under license

#### 1.36 libcap-ng 0.7.3

1.36.1 Available under license

#### 1.37 iputils 20101006

1.37.1 Available under license

#### 1.38 openssl 1.0.2r

1.38.1 Available under license

#### 1.39 atftp 0.7.1

1.39.1 Available under license

#### 1.40 libevent 2.1.4-alpha

1.40.1 Available under license

#### 1.41 libssh2 1.8.0

1.41.1 Available under license

#### 1.42 dnsmasq 2.82

1.42.1 Available under license

#### 1.43 linux-kernel 3.14.43

1.43.1 Available under license

#### 1.44 iproute 4.0.0

1.44.1 Available under license

#### 1.45 six 1.10.0

1.45.1 Available under license

#### 1.46 elfutils 0.172

1.46.1 Available under license

#### 1.47 libconfig 1.4.9

1.47.1 Available under license

#### 1.48 libwebsockets 2.0-stable

1.48.1 Available under license

#### 1.49 sysfsutils 2.1.0

1.49.1 Available under license

#### 1.50 ebtables 2.0.10

1.50.1 Available under license

#### 1.51 valgrind 3.12.0

1.51.1 Available under license

#### 1.52 websocket-client 0.47.0

1.52.1 Available under license

#### 1.53 expat 2.2.8

1.53.1 Available under license
1.54 fuse 2.9.3
1.54.1 Available under license
1.55 curl 7.66.0
1.55.1 Available under license
1.56 util-linux 2.30.2
1.56.1 Available under license
1.57 strace 4.8
1.57.1 Available under license
1.58 opkg 0.1.8
1.58.1 Available under license
1.59 dmalloc 5.5.2
1.59.1 Available under license
1.60 libev 5.5
1.60.1 Available under license
1.61 pciutils 3.4.0
1.61.1 Available under license
1.62 libtool 2.4
1.62.1 Available under license
1.63 futures 3.0.5
1.63.1 Available under license
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1.65 pnp 1.8.0.dev16
1.65.1 Available under license
1.66 intelhex 2.1
1.66.1 Available under license
1.67 mtd-utils 1.5.1
1.67.1 Available under license
1.68 tftpy 0.6.2
1.68.1 Available under license
1.69 pycurl 7.43.0-3.ph2
1.69.1 Available under license
1.70 pyserial 2.7
1 70 1 Available under license

1.71.1 Available under license

1.72.1 Available under license

1.71 procps 3.2.8

1.72 tdb 1.42.12

# 1.73 redis 3.2.1 1.73.1 Available under license 1.74 kexec-tools 2.0.18 1.74.1 Available under license 1.75 safeclib 3.1.1

1.75.1 Available under license

1.76 wireless-tools 29

1.76.1 Available under license

1.77 memcached 1.5.7

1.77.1 Available under license

1.78 libmemcached 1.0.18

1.78.1 Available under license

1.79 u-boot 2010.06

1.79.1 Available under license

1.80 argp-standalone 1.3

1.80.1 Available under license

1.81 binutils-linaro 2.24.0-2014.09

1.81.1 Available under license

1.82 dropbear 2016.74

1.82.1 Available under license

1.83 gettext 0.19.5

1.83.1 Available under license

1.84 libnl-tiny 0.1.4

1.84.1 Available under license

1.85 libserial 0.6.0-rc2

1.85.1 Available under license

1.86 libvirt 1.2.15

1.86.1 Available under license

1.87 Izo 2.08

1.87.1 Available under license

1.88 ntpclient 2010

1.88.1 Available under license

1.89 odhcp6c 2015-07-13

1.89.1 Available under license

1.90 uci 2015-08-27.1

1.90.1 Available under license

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1.91.1 Available under license

1.92 ubox 2015-11-22

1.92.1 Available under license

1.93 yajl 2.1.0

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1.94 lua-cjson 2.1.0

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1]) by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100

Received: from raptor.research.att.com (raptor.research.att.com

[135.207.23.32])

by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB

for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Received: (from gsf@localhost)

by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST) From: Glenn Fowler <gsf@research.att.com>

Message-Id: <200603011923.OAA86112@raptor.research.att.com>

Organization: AT&T Research

X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>

To: mps@bridge.intra

Subject: Re: testregex licensing question

X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)

X-GMX-Antispam: 0 (Mail was not recognized as spam) X-GMX-UID: IJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca

X-Virus-Scanned: by amavisd-new at localhost

Status: RO X-Status: X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

- > Hello Glenn!
- > I would want to add testregex.c and the related \*.dat files to the uClibc
- > testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
- > licensing related info on testregex.
- > Is it allowed to use the code there, or should I accomodate the testsuite
- > to download the needed files from the original site each time it is ran?
- > Thanks, Peter
- > --
- > Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
- > Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2 Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

# 1.7 boost 1.60

# 1.7.1 Available under license:

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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>1964der>1965</p
 </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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Steve

Cleary (Variant of Stephen Cleary)

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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)

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--- end ---

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

HISTORY -

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

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

### Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

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

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

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

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

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

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

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

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

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

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

the SunOS dynamic loader

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

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

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

Alistair G. Crooks(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.)

# 1.8 mbed-tls 2.3.0

# 1.8.1 Available under license:

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# 1.12 libiconv 7

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## 1.14 ntp 4.2.8p10

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```
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<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
k href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<img src="pic/sheepb.jpg" alt="jpg" align="left"> "Clone me," says Dolly sheepishly.
Last update:
  <!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
       UTC
<br >
```

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\*

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<a href="mailto:%20mark\_andrews@isc.org">Mark Andrews<mark\_andrews@isc.org></a> Leitch atomic clock controller

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<kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5

<a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes

<a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option

<a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recybuf and iosignal code into separate modules.

<a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver

<a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks@cl.cam.ac.uk></a> MSF clock driver, Trimble PARSE support

<a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete broadcast and crypto features in sntp

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<a href="mailto:%20casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration

<a href="mailto:%20Sven\_Dietrich@trimble.COM">Sven Dietrich</a> esven\_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

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<duwe@immd4.informatik.uni-erlangen.de></a> Linux port

<a href="mailto:%20dennis@mrbill.canet.ca">Dennis Ferguson <dennis@mrbill.canet.ca></a> foundation

```
code for NTP Version 2 as specified
```

in RFC-1119

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- <a href="mailto:%20davehart@davehart.com">Dave Hart <davehart@davehart.com></a> General maintenance, Windows port interpolation rewrite
- <a href="mailto:%20neoclock4x@linum.com">Claas Hilbrecht <neoclock4x@linum.com></a> NeoClock4X clock driver
- <a href="mailto:%20glenn@herald.usask.ca">Glenn Hollinger <glenn@herald.usask.ca></a> GOES clock driver
- <a href="mailto:%20iglesias@uci.edu">Mike Iglesias <iglesias@uci.edu></a> DEC Alpha port
- <a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port
- <a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive prototyping overhaul
- <a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com</a> or <a href="mailto:H.Lambermont@chello.nl"><H.Lambermont@chello.nl></a> ntpsweep
- <a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver (Original author)
- <a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a
- href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org"><kardel (at) ntp (dot) org></a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- <a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
- <a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones <jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HPUX modifications
- <a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port
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- <a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based authentication
- <a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305
- <a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a>Network I/O, Windows Port, Code Maintenance
- <a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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- Moore < tmoore@fievel.daytonoh.ncr.com > </a> i386 svr4 port
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- <a href="mailto:%20derek@toybox.demon.co.uk">Derek Mulcahy <derek@toybox.demon.co.uk></a> and <a href="mailto:%20derek@toybox.demon.co.uk">>Derek Mulcahy <derek@toybox.demon.co.uk></a>

```
href="mailto:%20d@hd.org">Damon Hart-Davis <d@hd.org></a> ARCRON MSF clock driver
 <a href="mailto:%20neal@ntp.org">Rob Neal <neal@ntp.org></a> Bancomm refclock and config/parse code
maintenance
 <a href="mailto:%20Rainer.Pruy@informatik.uni-erlangen.de">Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de">Rainer.Pruy@informatik.uni-erlangen.de</a>
erlangen.de></a> monitoring/trap scripts, statistics file handling
 <a href="mailto:%20dirce@zk3.dec.com">Dirce Richards <dirce@zk3.dec.com></a> Digital UNIX V4.0
port
 <a href="mailto:%20wsanchez@apple.com">Wilfredo S&aacute;nchez <wsanchez@apple.com></a> added
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Saved a Lot of space on the stuff in the html/pic/ subdirectory
 <a href="mailto:%20schnitz@unipress.com">Ray Schnitz@unipress.com></a> Unixware1
port
 <a href="mailto:%20shields@tembel.org">Michael Shields @tembel.org></a> USNO clock
driver
 <a href="mailto:%20pebbles.jpl.nasa.gov">Jeff Steinman <jss@pebbles.jpl.nasa.gov></a> Datum PTS clock
driver
 <a href="mailto:%20harlan@pfcs.com">Harlan Stenn <harlan@pfcs.com></a> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
 <a href="mailto:%20ken@sdd.hp.com">Kenneth Stone <ken@sdd.hp.com></a> HP-UX port
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u.ac.jp></a>TRAK
 clock driver
 <a href="mailto:%20brian.utterback@oracle.com">Brian Utterback<br/> <br/> brian.utterback@oracle.com></a>
General codebase, Solaris issues
 <a href="mailto:%20loganaden@gmail.com">Loganaden Velvindron <loganaden@gmail.com></a>
Sandboxing (libseccomp) support
 <a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic
TrueTime clock driver
 <a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl<Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de</br/>Ulrich Windl@rz.uni-regensburg.de">Ulrich Windl@rz.uni-regensburg.de</br/>Ulrich Windl@rz.uni-regensburg.de</br/>
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- 46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
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# 1.17 bzip2 1.0.8

## 1.18 zlib 1.2.8

## 1.18.1 Available under license:

/\* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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- \*
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\*

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```

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```
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/* OPENBSD ORIGINAL: sys/sys/poll.h */
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
typedef struct pollfd {
int fd;
short events:
short revents;
} pollfd_t;
typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
```

#if 0

```
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM
                        POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not
standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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*/
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
```

```
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int,
int *, int);
#endif /* !HAVE_WAITPID */
#endif /* BSD WAITPID H */
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#ifndef HAVE SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

# 1.21 pcre 8.38

## 1.21.1 Available under license:

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-----

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-----

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

University of Cambridge Computing Service, Cambridge, England.

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## 1.23 ncurses 6.1

## 1.23.1 Available under license:

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
Index: tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
- Unix SMB/CIFS implementation.
```

- + trivial database library standalone version
- trivial database library private includes

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- \*\* NOTE! The following LGPL license applies to the tdb
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Gadi Oxman, August 1995

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Theodore Ts'o 23-June-2007

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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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all:: image

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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)
#
```

```
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)
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <a href="mailto:dirson@debian.org">debian.org</a>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# 1.25 wpa-supplicant 2.3

# 1.25.1 Available under license:

wpa\_supplicant and hostapd

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# 1.29 jansson 2.10

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# 1.30 python 2.7.17

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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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from				CO		comp	mpatible? (1)	
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	1.6	1.5.2	20	00	CN	RI	no	
	2.0	1.6	200	00	BeC	pen.c	om r	10
	1.6.1	1.6	20	01	CN	RI	yes	(2)
	2.1	2.0+1.6	.1 2	2001	P	SF	no	
	2.0.1	2.0+1.6	5.1	2001	I	PSF	ye	es
	2.1.1	2.1+2.0	).1	2001	I	PSF	ye	es
	2.1.2	2.1.1	20	002	PS	F	yes	
	2.1.3	2.1.2	20	002	PS	F	yes	
	2.2 and al	ove 2.1	.1	200	1-nov	W		
	PSF	yes						

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# 1.33 perl 5.24.1

# 1.33.1 Available under license:

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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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```
<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 = \sim /.* \setminus b(\setminus 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 $output = runperl switches => ['-v'];
my (\$ year) = \$ output = \sim /copyright 1987.* \ b(\ d\{4,\})/i
   or die "Copyright statement not found in perl -v output '$output'";
$year;
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## 1.39 atftp 0.7.1

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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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for his work on the initial Linux DVB driver

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Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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## 1.47 libconfig 1.4.9

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Version 2.1, February 1999

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Upstream-Name: ls-config

Source: https://github.com/lucas-net-pl/ls-config

Files: \*

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Files: debian/\*

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- @c \input texinfo.tex @c -\*-texinfo-\*-

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

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Ty Coon, President of Vice
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## 1.52 websocket-client 0.47.0

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## 1.59 dmalloc 5.5.2

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```
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# dmalloc_summarize -- summarizes dmalloc log files
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# $Id: dmalloc summarize.pl,v 1.1.1.1 2012/09/18
09:28:11 mohammr1 Exp $
* Copyright (c) 1994, Textil Computer Design GmbH, Dresden
* Author: J"org Wunsch
* Dumb atexit() implementation. It is far from being elegant. It is
* only here to provide a workaround for systems where the existing
* atexit() implementation is known to cause problems due to doing
* own mallocs. The problem arose originally on a Data General
* machine running DG/UX 5.4R*, along with gcc compiling C++ code.
* In order to have global and static variables called their const-
* ructors, a chunk of code has been placed by the compiler that
* ran before invoking main(). This code registered the desctructors
* with atexit() at this very early stage, but the existing atexit()
* bypassed the normal memory allocation scheme, and hence caused
* grievous troubles in combination with the dmalloc library.
* Known problem for DG/UX: the crt0.0 (at least in a COFF environ-
* ment) passes the return value from main() to _real_exit() instead
```

\* of exit().

Hence programs which return from main instead of calling

- \* exit() do not work as expected. I do not see any good workaround
- \* for this so far (since crt0.0 always happens to reference the
- \* \_real\_exit() from the library, even if we would provide our very
- \* own symbol for it).

\*

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## 1.65 pnp 1.8.0.dev16

### 1.65.1 Available under license:

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```
[bdist_rpm]
release = 1
packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1
[install]
prefix = /isan
install_lib = /isan/python/scripts
[egg_info]
tag_build =
tag_date = 0
tag\_svn\_revision = 0
Found in path(s):
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/setup.cfg
```

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Metadata-Version: 1.1

Name: pnp

Version: 1.8.0.dev16

Summary: Plug-n-Play Agent for Cisco Network-PnP

Home-page: https://developer.cisco.com/site/open-plug-n-play/

Author: Network Plug-n-Play

Author-email: pnp-support@cisco.com

License: Cisco Proprietary Description: UNKNOWN

Keywords: posix pnp agent plug-n-play client

Platform: UNKNOWN

Classifier: Operating System :: POSIX :: Linux Classifier: Programming Language :: Python :: 2.7

#### Found in path(s):

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/PKG-INFO
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp.egg-info/PKG-INFO

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#### Found in path(s):

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/cco\_discovery.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/capwap.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/platform\_constants.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/vbond.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/timer.py
- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/connection\_manager.py$
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/notify.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/event.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/action.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/redirection.py

\*

/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/certificate.py

- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/vbond.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/wlc.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/vrf.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/certificate\_install.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/wlc.py
- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/xml/xmlgenerator.py$
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/xml/xmlparser.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/pnp\_infra.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/notify.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/profile/profile.py

\*

/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/vrf.py

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/capwap.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/lease\_parser.py

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/objects.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/interface info db.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/device.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-

gz/pnp/discovery/mechanisms/platform\_discovery.py

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/script\_exec.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/dhcp\_discovery.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/sudi.py

\*

 $/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp\_constants.py$ 

- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp\_file\_paths.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/platform\_discovery.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp logging.py
- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/discovery\_manager.py$
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/clock\_sync.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/agent.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/faults.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/lease\_parser.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/event.py
- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/profile/profile\_manager.py$

\*

/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/tag.py

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/cdp.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/service/handler.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/clock\_sync.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/security.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/connection client.py
- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/cdp.py$
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/http\_conn\_client.py
- \*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/script exec.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp\_utils.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/interface\_info.py

\*

/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/errors.py

- $*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/api/pnp\_service.py$
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/errors.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/policy.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/backoff.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/cli\_config.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/user\_auth.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/posix\_pnp\_nohup.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/sudi.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/dns\_discovery.py

\*

 $/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/file\_utils.py$ 

- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/exec\_log.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/script.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/errors.py

- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/device\_auth.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/topology.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/device.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/resolve.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/capability.py
- \*/opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/device\_info.py
- \* /opt/cola/permits/1155085380\_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/user\_auth.py No license file was found, but licenses were detected in source scan.

license='Cisco Proprietary',

#### Found in path(s):

\*/opt/cola/permits/1155085380 1620410460.72/0/posix-pnp-tar-gz/setup.py

## 1.66 intelhex 2.1

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## 1.67 mtd-utils 1.5.1

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

That's all there is to it!

# 1.72 tdb 1.42.12

## 1.72.1 Available under license:

- #!/usr/bin/env python3
- # Some simple tests for the Python bindings for TDB
- # Note that this tests the interface of the Python bindings
- # It does not test tdb itself.

#

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 $*/opt/cola/permits/1652848662\_1682404168.1067324/0/liyanboy74-argp-standalone-v1-3-0-gcbdc83e-targz/liyanboy74-argp-standalone-cbdc83e/argp-fmtstream.h$ 

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```
/* Written by Niels Mller <nisse@lysator.liu.se>
```

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- $*/opt/cola/permits/1652848662\_1682404168.1067324/0/liyanboy74-argp-standalone-v1-3-0-gcbdc83e-targz/liyanboy74-argp-standalone-cbdc83e/strchrnul.c$
- $*/opt/cola/permits/1652848662\_1682404168.1067324/0/liyanboy74-argp-standalone-v1-3-0-gcbdc83e-targz/liyanboy74-argp-standalone-cbdc83e/strndup.c$
- $*/opt/cola/permits/1652848662\_1682404168.1067324/0/liyanboy74-argp-standalone-v1-3-0-gcbdc83e-targz/liyanboy74-argp-standalone-cbdc83e/mempcpy.c$

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\*

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

\*/

#### Found in path(s):

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## 1.81 binutils-linaro 2.24.0-2014.09

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++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several

processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

#### Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation

that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small

bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't

intentionally leaving anyone out.

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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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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\*

\* curve25519-donna: Curve25519 elliptic curve, public key function

\*

\* http://code.google.com/p/curve25519-donna/

\*

\* Adam Langley <agl@imperialviolet.org>

\*

\* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

\*

- \* More information about curve25519 can be found here
- \* http://cr.yp.to/ecdh.html

\*

- \* djb's sample implementation of curve25519 is written in a special assembly
- \* language called qhasm and uses the floating point registers.

\*

- \* This is, almost, a clean room reimplementation from the curve25519 paper. It
- \* uses many of the tricks described therein. Only the crecip function is taken
- \* from the sample implementation.

\*/

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable,

and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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#### The

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Version 2.1, February 1999

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necessary. Here is a sample; alter the names:

That's all there is to it!

# 1.84 libnl-tiny 0.1.4

## 1.84.1 Available under license:

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```
* netlink/utils.h Utility Functions

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*/
```

#### Found in path(s):

\* /opt/cola/permits/1652859255\_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink/utils.h No license file was found, but licenses were detected in source scan.

```
/*

* lib/object.c Generic Cacheable Object

*

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\* Ross Biro

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```
/*
* INET An implementation of the TCP/IP protocol suite for the LINUX
* operating system. INET is implemented using the BSD Socket
* interface as the means of communication with the user level.
* Global definitions for the INET interface module.
* Version: @(#)if.h 1.0.2 04/18/93
* Authors: Original taken from Berkeley UNIX 4.3, (c) UCB 1982-1988
```

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Found in path(s):
*/opt/cola/permits/1652859255 1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/linux/if.h
No license file was found, but licenses were detected in source scan.
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/genl/mngt.h
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*/
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink/attr.h
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* netlink/object-api.c Object API
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```

\* Fred N. van Kempen, <waltje@uWalt.NL.Mugnet.ORG>

```
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink/object-
api.h
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* netlink/handlers.c default netlink message handlers
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/handlers.h
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* netlink/list.h Netlink List Utilities
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*/
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```

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```
* netlink/netlink-compat.h Netlink Compatability
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/netlink-compat.h
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* netlink/socket.h Netlink Socket
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/socket.h
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* netlink/netlink-types.h Netlink Types
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/types.h
```

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```
* netlink/netlink.h Netlink Interface
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*/opt/cola/permits/1652859255 1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/netlink.h
No license file was found, but licenses were detected in source scan.
* netlink/genl/ctrl.h Generic Netlink Controller
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/genl/ctrl.h
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* lib/error.c Error Handling
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```

```
* netlink/version.h Compile Time Versioning Information
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/version.h
No license file was found, but licenses were detected in source scan.
* netlink/cache-api.h Caching API
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink/cache-
No license file was found, but licenses were detected in source scan.
* lib/nl.c Core Netlink Interface
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*/
Found in path(s):
*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/nl.c
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* lib/handlers.c default netlink message handlers
```

```
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No license file was found, but licenses were detected in source scan.
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Found in path(s):
*/opt/cola/permits/1652859255 1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/genl mngt.c
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* netlink-types.h Netlink Types (Private)
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*/
Found in path(s):
*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink-
No license file was found, but licenses were detected in source scan.
* netlink/genl/genl.h Generic Netlink
* This library is free software; you can redistribute it and/or
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/genl/genl.h
No license file was found, but licenses were detected in source scan.
* lib/cache.c Caching Module
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/cache.c
No license file was found, but licenses were detected in source scan.
* lib/genl/ctrl.c Generic Netlink Controller
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Found in path(s):
*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/genl_ctrl.c
No license file was found, but licenses were detected in source scan.
* netlink/object.c Generic Cacheable Object
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*/opt/cola/permits/1652859255 1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/object.h
No license file was found, but licenses were detected in source scan.
* lib/genl/genl.c Generic Netlink
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/genl.c
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* netlink-generic.h Local Generic Netlink Interface
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*/opt/cola/permits/1652859255_1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-tiny/src/include/netlink-
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tiny/src/include/netlink/errno.h
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tiny/src/include/netlink/cache.h
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* netlink/genl/family.h Generic Netlink Family
```

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```
*/opt/cola/permits/1652859255 1682406208.1959174/0/libnl-tiny-0-1-4-tar-gz/libnl-
tiny/src/include/netlink/genl/family.h
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Found in path(s):
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Found in path(s):

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* netlink/msg.c Netlink Messages Interface

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```
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* netlink/addr.h Abstract Address

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# 1.85 libserial 0.6.0-rc2

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# 1.88 ntpclient 2010

## 1.88.1 Available under license:

No license file was found, but licenses were detected in source scan.

```
* phaselock.c - Phase locking for NTP client
* Copyright (C) 2000, 2007 Larry Doolittle <a href="mailto:larry@doolittle.boa.org">larry@doolittle.boa.org</a>
* Last hack: 30 December, 2007
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* GNU General Public License for more details.
* Possible future improvements:
    - Subtract configurable amount from errorbar
    - Build in general run-time access to tune parameters
     - Sculpt code so it's legible, this version is out of control
```

## Found in path(s):

- Write documentation :-(

\* /opt/cola/permits/1652861170\_1682406855.7505476/0/ntpclient-2010-365-tar-gz/ntpclient-2010/phaselock.c No license file was found, but licenses were detected in source scan.

ntpclient is an NTP (RFC-1305, RFC-4330) client for unix-alike computers. Its functionality is a small subset of xntpd, but IMHO performs better (or at least has the potential to function better) within that limited scope. Since it is much smaller than xntpd, it is also more relevant for embedded computers.

ntpclient is Copyright 1997, 1999, 2000, 2003, 2006, 2007 Larry Doolittle, and may be freely copied and modified according to the terms of the GNU General Public License, version 2. If you want to distribute ntpclient under other terms, contact me. I might agree to some other arrangement, if you talk to me \_before\_ you start violating GPL terms.

ntpclient home page: http://doolittle.icarus.com/ntpclient/

Joachim Nilsson created a fork of ntpclient that he maintains at http://vmlinux.org/jocke/ntpclient.shtml. We don't have the same maintainance and build system sensibilities; some people may prefer his. In particular, he has converted his ntpclient to daemon and syslog. The basic functionality of the two versions should be identical.

To build on Linux, type "make". Solaris and other Unix users will probably need to adjust the Makefile slightly. It's not complex. For changing the system clock frequency, only the Linux adjtimex(2) interface is implemented at this time. Non-Linux systems can only use ntpclient to measure time differences and set the system clock, by way of the POSIX 1003.1-2001 standard routines clock\_gettime() and clock\_settime(). Also see "Bugs", below.

There are a few compile-time configurations possible, which require editing the Makefile. Either do or don't define ENABLE\_DEBUG ENABLE\_REPLAY USE\_OBSOLETE\_GETTIMEOFDAY PRECISION\_SIOCGSTAMP

Try it first without changing the default: that will give you a full-featured ntpclient, that uses modern POSIX time functions, and works reasonably with any Linux kernel. There are comments in ntpclient.c that you should

read before experimenting with PRECISION\_SIOCGSTAMP.

Some older but otherwise (almost) serviceable Linux systems (e.g., Red Hat EL-3.0 and Ubuntu 4.10) have a totally broken POSIX clock\_settime() implementation. If you get "clock\_settime: Invalid argument" when you run ntpclient -s, rebuild with -DUSE\_OBSOLETE\_GETTIMEOFDAY. Linux systems that are even older won't even compile without that switch set.

Usage: ntpclient [options] options:

- -c count stop after count time measurements (default 0 means go forever)
- -d print diagnostics (feature can be disabled at compile time)
- -g goodness causes ntpclient to stop after getting a result more accurate than goodness (microseconds, default 0 means go forever)

- -h hostname (mandatory) NTP server, against which to measure system time
- -i interval check time every interval seconds (default 600)
- -l attempt to lock local clock to server using adjtimex(2)
- -p port local NTP client UDP port (default 0 means "any available")
- -q min\_delay minimum packet delay for transaction (default 800 microseconds)
- -r replay analysis code based on stdin
- -s simple clock set (implies -c 1)
- -t trust network and server, no RFC-4330 recommended cross-checks

Mortal users can use this program for monitoring, but not clock setting (with the -s or -l switches). The -l switch is designed to be robust in any network environment, but has seen the most extensive testing in a low latency (less than 2 ms) Ethernet environment. Users in other environments should study ntpclient's behavior, and be prepared to adjust internal tuning parameters. A long description of how and why to use ntpclient is in the HOWTO file. ntpclient always sends packets to the server's UDP port 123.

One commonly needed tuning parameter for lock mode is min\_delay, the shortest possible round-trip transaction time. This can be set with the command line -q switch. The historical default of 800 microseconds was

good for local Ethernet hardware a few years ago. If it is set too high, you will get a lot of "inconsistent" lines in the log file when time locking (-1 switch). The only true future-proof value is 0, but that will cause the local time to wander more than it should. I use 200 on my workstation.

The test.dat file has 200 lines of sample output. Its first few lines, with the output column headers that are shown when the -d option is chosen, are:

```
day second elapsed stall skew dispersion freq
36765 00180.386 1398.0 40.3 953773.9 793.5 -1240000
36765 00780.382 1358.0 41.3 954329.0 915.5 -1240000
36765 01380.381 1439.0 56.0 954871.3 915.5 -1240000
```

day, second: time of measurement, UTC, relative to NTP epoch (Jan 1, 1900)

elapsed: total time from query to response (microseconds)

stall: time the server reports that it sat on the request (microseconds)

skew: difference between local time and server time (microseconds)

dispersion: reported by server, see RFC-1305 (microseconds)

freq: local clock frequency adjustment (Linux only, ppm\*65536)

A relatively new feature is a series of sanity checks on UDP packets received, generally as recommended by RFC-4330. If it fails one of these tests, the line described above is replaced by 36765 01380.381 rejected packet

or, if ENABLE\_DEBUG was selected at compile time, one of

36765 01380.381 rejected packet: LI==3

36765 01380.381 rejected packet: VN<3

36765 01380.381 rejected packet: MODE!=3

36765 01380.381 rejected packet: ORG!=sent

36765 01380.381 rejected packet: XMT==0

36765 01380.381 rejected packet: abs(DELAY)>65536

36765 01380.381 rejected packet: abs(DISP)>65536

36765 01380.381 rejected packet: STRATUM==0

To see the actual values of the rejected packet, start ntpclient with the -d option; this will give a human-readable printout of every packet received, including the rejected ones. To skip these checks, use the -t switch.

#### test.dat

is suitable for piping into ntpclient -r. I have over 200000 samples (lines) archived for study, that I don't include here. They are generally spaced 10 minutes apart, representing over three years of data logging (from a variety of machines, and not continuous, unfortunately).

As a special, added bonus, I also include my adjtimex(1) program. See its man page and the HOWTO file for more information.

envelope is a perl script that I have used for my lock studies. It's kind of a hack and not worth documenting here.

Changes since the widely distributed ntpclient 2000 345 version:

- -- new -g option (has had limited testing)
- -- changed max frequency adjustment from 91 ppm to 150 ppm
- -- fixed "inconsistent" bug in phaselock.c triggered by large freq errors
- -- new files: HOWTO, adjtimex.c, adjtimex.1, rate.awk, log2date.pl
- -- minor source code cleanups
- -- source is now as 64-bit clean as practical; tested on Alpha
- -- optional patches provided by Andy Warner, see andyw.patch
- -- optional patches provided by Linksys, see linksys.patch
- -- removed unreasonable 15020 day offset in date column (xntpd has this offset, which turns days-since-1900-epoch into Modified Julian Day)

Changes since the widely distributed ntpclient\_2003\_194 version:

- -- default build is now -std=c99, but c89 sill works too
- -- switch default compile from gettimeofday() to POSIX clock\_gettime()
- -- more sanity checking on the NTP reply packet, reference RFC-4330
- -- fractional second printing in debug output changed to traditional decimal
- -- new -f switch to set initial frequency
- -- works to specify both -s and -l, will jump-set first and then phase lock
- -- bug fix for select() error handling, thanks to Walter Harms
- -- new man page, contributed by Walter Harms
- -- most subroutines are now flagged static to the compiler

- -- structural changes to the code, such as the new ntpclient.h file
- -- dropped (mostly) obsolete patches from Linksys and Andy Warner

#### Changes since ntpclient\_2006\_318:

- -- adjustable min\_delay parameter, used to be hard-coded 800 microseconds
- -- remove useless listen() call, thanks to Alexander Indenbaum
- -- fix length passed to recvfrom(), thanks to Alexander Indenbaum
- -- tidy up 32-bit integer declarations, prodding from Brian McAllister
- -- added rate2.awk, contributed by Lou Sortman
- -- provide easy way to override 15 second MIN\_INTERVAL at compile time
- -- relax MIN\_INTERVAL enforcement for one-shot use, thanks to Mihai Buha

#### Changes since ntpclient 2007 365:

- -- fixed type of sa\_xmit\_len, thanks vapier
- -- dropped underscores in spelling of adjtimex(2), might make uClibc happier
- -- include netdb.h and always define \_BSD\_SOURCE to get prototype for herror
- -- minor formatting to align with Nilsson's fork
- -- add -fno-strict-aliasing as needed by traditional network coding style

#### Bugs:

- -- Doesn't understand the LI (Leap second Indicator) field of an NTP packet
- -- Doesn't interact with adjtimex(2) status value
- -- Can't query

multiple servers

- -- IPv4 only
- -- Requires Linux-style select() semantics, where timeout value is modified
- -- Always returns success (0)

## Adherence to RFC-4330 chapter 10, Best practices:

- 1. enforced, unless someone tinkers with the source code
- 2. no backoff, but no retry either; this isn't TCP
- 3. not in scope for the upstream source
- 4. not in scope for the upstream source
- 5. not in scope for the upstream source
- 6. supported
- 7. not supported
- 8. not supported (scary opportunity to DOS the \_client\_)
  - Larry Doolittle <arry@doolittle.boa.org>

#### Found in path(s):

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```
/*
* ntpclient.c - NTP client
```

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\*

- \* Possible future improvements:
- \* Write more documentation :-(
- \* Support leap second processing
- \* Support IPv6
- \* Support multiple

(interleaved) servers

\*

- \* Compile with -DPRECISION SIOCGSTAMP if your machine really has it.
- \* There are patches floating around to add this to Linux, but
- \* usually you only get an answer to the nearest jiffy.
- \* Hint for Linux hacker wannabes: look at the usage of get\_fast\_time()
- \* in net/core/dev.c, and its definition in kernel/time.c .

\*

- \* If the compile gives you any flak, check below in the section
- \* labelled "XXX fixme non-automatic build configuration".

\*/

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/\*

 $\ensuremath{^*}\xspace$  adjtimex\_1.c - read, and possibly modify, the Linux kernel `timex' variables.

\*

- \* Originally written: October 1997
- \* Last hack: May 2003
- \* Copyright 1997, 2000, 2003 Larry Doolittle <a href="mailto:larry@doolittle.boa.org">larry@doolittle.boa.org</a>

\*

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\*

- \* This adjtimex(1) is very similar in intent to adjtimex(8) by Steven
- \* Dick <ssd@nevets.oau.org>

and Jim Van Zandt < jrv@vanzandt.mv.com>

- \* (see http://metalab.unc.edu/pub/Linux/system/admin/time/adjtimex\*).
- \* That version predates this one, and is \_much\_ bigger and more
- \* featureful. My independently written version was very similar to
- \* Steven's from the start, because they both follow the kernel timex
- \* structure. I further tweaked this version to be equivalent to Steven's
- \* where possible, but I don't like getopt long, so the actual usage
- \* syntax is incompatible.

\*

- \* Amazingly enough, my Red Hat 5.2 sys/timex (and sub-includes)
- \* don't actually give a prototype for adjtimex(2), so building
- \* this code (with -Wall) gives a warning. Later versions of
- \* glibc fix this issue.

\*

- \* This program is too simple for a Makefile, just build with:
- \* gcc -Wall -O adjtimex\_1.c -o adjtimex

\*/

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\*/opt/cola/permits/1652861170\_1682406855.7505476/0/ntpclient-2010-365-tar-gz/ntpclient-2010/adjtimex.c

# 1.89 odhcp6c 2015-07-13

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# $Id: shunit2 189 2008-07-11 11:46:54Z kate.ward@forestent.com $
# vim:et:ft=sh:sts=2:sw=2
# vim:foldmethod=marker:foldmarker=/**,*/
#
#/**
# <?xml version="1.0" encoding="UTF-8"?>
# <s:shelldoc xmlns:s="http://www.forestent.com/projects/shelldoc/xsl/2005.0">
```

# <s:header>

```
# shUnit 2.1.4
# Shell Unit Test Framework
# http://shunit2.sourceforge.net/
# written by Kate Ward <kate.ward@forestent.com&gt;
# released under the LGPL
# this module implements a xUnit based unit test framework similar to JUnit
# </s:header>
#*/
SHUNIT_VERSION='2.1.4'
_shunit_warn() { echo "shunit2:WARN $@" >&2; }
_shunit_error() { echo "shunit2:ERROR $@" >&2; }
_shunit_fatal() { echo "shunit2:FATAL $@" >&2; }
SHUNIT_TRUE=0
SHUNIT_FALSE=1
SHUNIT ERROR=2
# specific shell checks
if [ -n "${ZSH_VERSION:-}"]; then
  setopt |grep "^shwordsplit$" >/dev/null
  if [ $? -ne ${SHUNIT_TRUE} ]; then
     _shunit_fatal 'zsh shwordsplit option is
  required for proper operation'
     exit ${SHUNIT_ERROR}
  if [ -z "${SHUNIT_PARENT:-}" ]; then
     _shunit_fatal "zsh does not pass \$0 through properly. please declare \
\"SHUNIT_PARENT=\$0\" before calling shUnit2"
     exit ${SHUNIT_ERROR}
  fi
fi
# shell flags for shunit2:
# u - treat unset variables as an error when performing parameter expansion
__SHUNIT_SHELL_FLAGS='u'
# save the current set of shell flags, and then set some for ourself
shunit_shellFlags_="$-"
for \ shunit\_shellFlag\_in \ `echo \ "$\{\_\_SHUNIT\_SHELL\_FLAGS\}" \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ 's \land (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |sed \ (. \ ) \land 1 \ /g` \ |s
  set -${shunit_shellFlag_}
 done
```

```
# constants
__SHUNIT_ASSERT_MSG_PREFIX='ASSERT:'
__SHUNIT_PARENT=${SHUNIT_PARENT:-$0}
# set the constants readonly
shunit_constants_=`set |grep "^_SHUNIT_" |cut -d= -f1`
echo "${shunit_constants_}" |grep "^Binary file" >/dev/null
if [ $? -eq 0 ]; then
# deal with binary junk in 'set' output
shunit_constants_=`set |grep -a "^_SHUNIT_" |cut -d= -f1`
for shunit_const_ in ${shunit_constants_};
do
shunit_ro_opts_="
if [ -n "${ZSH_VERSION:-}"]; then
 case ${ZSH_VERSION} in
  [123].*);;
  *) shunit_ro_opts_='-g' ;; # declare readonly constants globally
 esac
fi
readonly ${shunit_ro_opts_} ${shunit_const_}
done
unset shunit_const_ shunit_constants_ shunit_ro_opts_
# variables
__shunit_skip=${SHUNIT_FALSE}
__shunit_suite="
__shunit_testsPassed=0
__shunit_testsFailed=0
__shunit_testsSkipped=0
__shunit_testsTotal=0
# macros
_SHUNIT_LINENO_='eval if [ "${1:-}" = "--lineno" ]; then [ -n "$2" ] && shunit_message_="[$2]"; shift 2; fi'
# assert functions
#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
```

```
# <entry>
# <funcsynopsis>
   <funcprototype>
#
     <funcdef><function>assertEquals</function></funcdef>
#
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>expected</parameter></paramdef>
   <paramdef>string <parameter>actual</parameter></paramdef>
   </funcprototype>
# </funcsynopsis>
# <para>Asserts that <emphasis>expected</emphasis> and
# <emphasis>actual</emphasis> are equal to one another. The message is
# optional.</para>
# </entry>
# </s:function>
#*/
assertEquals()
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'assertEquals() requires one or two arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
 shunit_message_="${shunit_message_}$1"
 shift
fi
shunit_expected_=$1
shunit_actual_=$2
shunit_return=${SHUNIT_TRUE}
if [ "${shunit_expected_}" = "${shunit_actual_}" ]; then
 _shunit_testPassed
else
 failNotEquals "${shunit_message_}" "${shunit_expected_}" "${shunit_actual_}"
 shunit_return=${SHUNIT_FALSE}
fi
unset shunit_message_ shunit_expected_ shunit_actual_
__shunit_lineno
return ${shunit_return}
_ASSERT_EQUALS_='eval assertEquals --lineno "${LINENO:-}"
#/**
```

```
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <functrototype>
     <funcdef><function>assertNull</function></funcdef>
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>value</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Asserts that <emphasis>value</emphasis> is literal>null
# or in shell terms a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNull()
${_SHUNIT_LINENO_}
if [ $# -lt 1 -o $# -gt 2 ]; then
 _shunit_error 'assertNull() requires one or two arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 2 ]; then
 shunit_message_="${shunit_message_}$1"
  shift
fi
if [ $# -eq 2 ]; then
 assertTrue "${shunit_message_}$1" "[ -z '$2' ]"
else
 assertTrue "[ -z '$1' ]"
fi
_ASSERT_NULL_='eval assertNull --lineno "${LINENO:-}"
#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
#
   <funcprototype>
     <funcdef><function>assertNotNull</function></funcdef>
```

```
<paramdef>string <parameter>[message]</parameter></paramdef>
#
     <paramdef>string <parameter>value</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Asserts that <emphasis>value</emphasis> is <emphasis
# role="strong">not</emphasis> literal>null
# a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotNull()
${_SHUNIT_LINENO_}
if [$#-gt 2]; then #allowing 0 arguments as $1 might actually be null
 _shunit_error 'assertNotNull() requires one
or two arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return ${SHUNIT_TRUE}
if [$# -eq 2]; then
 assertTrue "$1" "[ -n '$2' ]"
 assertTrue "[ -n '${1:-}' ]"
fi
_ASSERT_NOT_NULL_='eval assertNotNull --lineno "${LINENO:-}"
#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <functrototype>
#
     <funcdef><function>assertSame</function></funcdef>
#
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>expected</parameter></paramdef>
#
     <paramdef>string <parameter>actual</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>This function is functionally equivalent to
# <function>assertEquals</function>.</para>
# </entry>
# </s:function>
#*/
assertSame()
```

```
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'assertSame() requires one or two arguments'
 return ${SHUNIT_ERROR}
shunit shouldSkip && return ${SHUNIT TRUE}
if [$# -eq 2]; then
 assertEquals "$1" "$2"
 assertEquals "$1" "$2" "$3"
fi
}
_ASSERT_SAME_='eval assertSame --lineno "${LINENO:-}"
#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <functorototype>
#
     <funcdef><function>assertNotSame</function></funcdef>
#
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>unexpected</parameter></paramdef>
#
     <paramdef>string <parameter>actual</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Asserts that <emphasis>unexpected</emphasis> and
# <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
# equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotSame()
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'assertNotSame()
requires two or three arguments'
 return ${SHUNIT_ERROR}
fi
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
```

```
shunit_message_="${shunit_message_}$1"
 shift
fi
shunit_unexpected_=$1
shunit_actual_=$2
shunit return=${SHUNIT TRUE}
if [ "${shunit_unexpected_}" != "${shunit_actual_}" ]; then
 _shunit_testPassed
else
 failSame "${shunit_message_}" "$@"
 shunit_return=${SHUNIT_FALSE}
fi
unset shunit_message_ shunit_unexpected_ shunit_actual_
return ${shunit_return}
_ASSERT_NOT_SAME_='eval assertNotSame --lineno "${LINENO:-}"
#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
    <functrototype>
#
     <funcdef><function>assertTrue</function></funcdef>
#
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>condition</parameter></paramdef>
   </funcprototype>
# </funcsynopsis>
# <para>Asserts that a given shell test condition is true. The message is
# optional.</para>
# <para>Testing whether something is true or false is easy enough by using
# the assertEquals/assertNotSame functions. Shell supports much more
# complicated tests though, and a means to support them was needed. As such,
# this function tests that conditions are true or false through evaluation
# rather than just looking for a true or false.</para>
# <funcsynopsis>
# The following test will succeed: <funcsynopsisinfo>assertTrue "[ 34 -gt 23 ]"</funcsynopsisinfo>
# The folloing test will fail with a message: <funcsynopsisinfo>assertTrue "test failed" "[ -r '/non/existant/file'
]"</funcsynopsisinfo>
# </funcsynopsis>
# </entry>
# </s:function>
#*/
```

```
assertTrue()
${_SHUNIT_LINENO_}
if [ $# -gt 2 ]; then
 _shunit_error 'assertTrue() takes one two arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return
${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 2 ]; then
 shunit_message_="${shunit_message_}$1"
 shift
fi
shunit condition =$1
# see if condition is an integer, i.e. a return value
shunit_match_=`expr "${shunit_condition_}" : \([0-9]*\)\
shunit_return=${SHUNIT_TRUE}
if [ -z "${shunit_condition_}" ]; then
 # null condition
 shunit_return=${SHUNIT_FALSE}
elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
 # possible return value. treating 0 as true, and non-zero as false.
 [ ${shunit_condition_} -ne 0 ] && shunit_return=${SHUNIT_FALSE}
else
 # (hopefully) a condition
 (eval ${shunit_condition_}) >/dev/null 2>&1
 [ $? -ne 0 ] && shunit_return=${SHUNIT_FALSE}
fi
# record the test
if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
 _shunit_testPassed
else
 _shunit_testFailed "${shunit_message_}"
fi
unset shunit_message_ shunit_condition_ shunit_match_
return ${shunit_return}
_ASSERT_TRUE_='eval
assertTrue --lineno "${LINENO:-}"
#/**
# <s:function group="asserts">
# <entry align="right">
```

```
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
    <funcprototype>
     <funcdef><function>assertFalse</function></funcdef>
     <paramdef>string <parameter>[message]</parameter></paramdef>
#
     <paramdef>string <parameter>condition</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Asserts that a given shell test condition is false. The message is
# optional.</para>
# <para>Testing whether something is true or false is easy enough by using
# the assertEquals/assertNotSame functions. Shell supports much more
# complicated tests though, and a means to support them was needed. As such,
# this function tests that conditions are true or false through evaluation
# rather than just looking for a true or false.</para>
# <funcsynopsis>
# The following test will succeed: <funcsynopsisinfo>assertFalse "[
'apples' = 'oranges' ]"</funcsynopsisinfo>
   The folloing test will fail with a message: <funcsynopsisinfo>assertFalse "test failed" "[ 1 -eq 1 -a 2 -eq 2
]"</funcsynopsisinfo>
# </funcsynopsis>
# </entry>
# </s:function>
#*/
assertFalse()
${_SHUNIT_LINENO_}
if [ $# -lt 1 -o $# -gt 2 ]; then
 _shunit_error 'assertFalse() quires one or two arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 2 ]; then
 shunit_message_="${shunit_message_}$1"
 shift
fi
shunit_condition_=$1
# see if condition is an integer, i.e. a return value
shunit_match_=`expr "${shunit_condition_}" : \([0-9]*\)\)\'
shunit_return=${SHUNIT_TRUE}
if [ -z "${shunit_condition_}" ]; then
 # null condition
 shunit_return=${SHUNIT_FALSE}
```

```
elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
 # possible return value. treating 0 as true, and non-zero as false.
 [ ${ shunit_condition_}
-eq 0 ] && shunit_return=${SHUNIT_FALSE}
else
 # (hopefully) a condition
 (eval ${shunit_condition_}) >/dev/null 2>&1
 [ $? -eq 0 ] && shunit_return=${SHUNIT_FALSE}
fi
# record the test
if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
 _shunit_testPassed
else
 _shunit_testFailed "${shunit_message_}"
fi
unset shunit_message_ shunit_condition_ shunit_match_
return ${shunit_return}
_ASSERT_FALSE_='eval assertFalse --lineno "${LINENO:-}"
# failure functions
#/**
# <s:function group="failures">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
     <funcdef><function>fail</function></funcdef>
     <paramdef>string <parameter>[message]</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Fails the test immediately, with the optional message.</para>
# </entry>
# </s:function>
#*/
fail()
 ${_SHUNIT_LINENO_}
if [ $# -gt 1 ]; then
 _shunit_error 'fail() requires one or two arguments'
 return ${SHUNIT_ERROR}
```

```
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 1 ]; then
 shunit_message_="${shunit_message_}$1"
 shift
fi
_shunit_testFailed "${shunit_message_}"
unset shunit_message_
return ${SHUNIT_FALSE}
_FAIL_='eval fail --lineno "${LINENO:-}"
#/**
# <s:function group="failures">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <functrototype>
#
     <funcdef><function>failNotEquals</function></funcdef>
#
     <paramdef>string <parameter>[message]</parameter></paramdef>
     <paramdef>string <parameter>unexpected</parameter></paramdef>
#
     <paramdef>string <parameter>actual</parameter></paramdef>
   </funcprototype>
# </funcsynopsis>
# <para>Fails the test if <emphasis>unexpected</emphasis> and
 <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
# equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
failNotEquals()
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'failNotEquals() requires one or two arguments'
 return ${SHUNIT_ERROR}
fi
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
```

```
shunit_message_="${shunit_message_}$1"
 shift
fi
shunit_unexpected_=$1
shunit_actual_=$2
_shunit_testFailed "${shunit_message_:+${shunit_message_}} }expected:<${shunit_unexpected_}> but
was:<${shunit_actual_}>"
unset shunit_message_ shunit_unexpected_ shunit_actual_
return ${SHUNIT_FALSE}
_FAIL_NOT_EQUALS_='eval failNotEquals --lineno "${LINENO:-}"
#/**
# <s:function group="failures">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
 <funcdef><function>failSame</function></funcdef>
     <paramdef>string <parameter>[message]</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Indicate test failure because arguments were not the same. The
# message is optional.</para>
# </entry>
# </s:function>
#*/
failSame()
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'failSame() requires two or three arguments'
 return ${SHUNIT_ERROR}
_shunit_shouldSkip && return ${SHUNIT_TRUE}
[-z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
 shunit_message_="${shunit_message_}$1"
 shift
fi
_shunit_testFailed "${shunit_message_:+${shunit_message_}} }expected not same"
```

```
unset shunit_message_
return ${SHUNIT_FALSE}
_FAIL_SAME_='eval failSame --lineno "${LINENO:-}"
#/**
# <s:function group="failures">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
     <funcdef><function>failNotSame</function></funcdef>
    <paramdef>string <parameter>[message]</parameter></paramdef>
#
     <paramdef>string <parameter>expected</parameter></paramdef>
#
     <paramdef>string <parameter>actual</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Fails the test if <emphasis>expected</emphasis> and
# <emphasis>actual</emphasis> are equal to one another. The message is
# optional.</para>
# </entry>
# </s:function>
failNotSame()
${_SHUNIT_LINENO_}
if [ $# -lt 2 -o $# -gt 3 ]; then
 _shunit_error 'failNotEquals() requires one or two arguments'
 return ${SHUNIT_ERROR}
fi
_shunit_shouldSkip && return ${SHUNIT_TRUE}
if [ $# -eq 2 ]; then
 failNotEquals "$1" "$2"
 failNotEquals "$1" "$2" "$3"
fi
_FAIL_NOT_SAME_='eval failNotSame --lineno "${LINENO:-}"
# skipping functions
#
```

```
#/**
# <s:function group="skipping">
# <entry
align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
     <funcdef><function>startSkipping</function></funcdef>
#
     <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function forces the remaining assert and fail functions to be
# "skipped", i.e. they will have no effect. Each function skipped will be
# recorded so that the total of asserts and fails will not be altered.</para>
# </entry>
# </s:function>
#*/
startSkipping()
__shunit_skip=${SHUNIT_TRUE}
}
#/**
# <s:function group="skipping">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
#
    <funcprototype>
     <funcdef><function>endSkipping</function></funcdef>
#
     <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function returns calls to the assert and fail functions to their
# default behavior, i.e. they will be called.</para>
# </entry>
# </s:function>
#*/
endSkipping()
   _shunit_skip=${SHUNIT_FALSE}
# <s:function group="skipping">
```

```
# <entry align="right">
# <emphasis>boolean</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
  <funcprototype>
    <funcdef><function>isSkipping</function></funcdef>
#
    <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function returns the state of skipping.</para>
# </entry>
# </s:function>
#*/
isSkipping()
return ${__shunit_skip}
#-----
# suite functions
#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
#
    <funcdef><function>suite</function></funcdef>
    <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be optionally overridden by the user in their test
# suite.</para>
# <para>If this function exists, it will be called when
# <command>shunit2</command>
is sourced. If it does not exist, shUnit2 will
# search the parent script for all functions beginning with the word
# testded dynamically to the test
# suite.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# suite() { :; }
```

```
#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
     <funcdef><function>suite_addTest</function></funcdef>
#
     <paramdef>string <parameter>function</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>This function adds a function name to the list of tests scheduled for
# execution as part of this test suite. This function should only be called
# from within the <function>suite()</function> function.</para>
# </entry>
# </s:function>
#*/
suite_addTest()
_su_func=${1:-}
__shunit_suite="${__shunit_suite:+${__shunit_suite}}
}${_su_func}"
unset _su_func
}
#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
#
     <funcdef><function>oneTimeSetUp</function></funcdef>
     <paramdef />
# </functrototype>
# </funcsynopsis>
# <para>This function can be be optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called once before any tests are
# run. It is useful to prepare a common environment for all tests.</para>
# </entry>
# </s:function>
#*/
```

```
# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeSetUp() { :; }
#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
     <funcdef><function>oneTimeTearDown</function></funcdef>
#
     <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be be
optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called once after all tests are
# completed. It is useful to clean up the environment after all tests.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeTearDown() { :; }
#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
#
     <funcdef><function>setUp</function></funcdef>
     <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be be optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called before each test is run.
# It is useful to reset the environment before each test.</para>
# </entry>
# </s:function>
# Note: see _shunit_mktempFunc() for actual implementation
# setUp() { :; }
```

```
#/**
# <s:function group="suites">
<entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
   <funcprototype>
     <funcdef><function>tearDown</function></funcdef>
#
     <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be be optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called after each test completes.
# It is useful to clean up the environment after each test.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# tearDown() { :; }
# internal shUnit2 functions
_shunit_cleanup()
name=$1
case ${name} in
 EXIT) signal=0;;
 INT) signal=2;;
 TERM) signal=15;;
   _shunit_warn "unrecognized trap value (${name})"
   signal=0
   ;;
esac
# do our work
rm -fr "${__shunit_tmpDir}"
# exit for all non-EXIT signals
if [ ${name} != 'EXIT' ]; then
 _shunit_warn "trapped and now handling the (${name}) signal"
```

```
_shunit_generateReport
 # disable EXIT trap
 trap 0
 # add 128 to signal and exit
 exit `expr ${signal} + 128`
fi
}
_shunit_execSuite()
{
echo '#'
echo '# Performing tests'
echo '#'
for _su_func in ${__shunit_suite}; do
 # disable skipping
 endSkipping
 # execute the per-test setup function
 setUp
 # execute the test
 echo "${_su_func}"
 eval ${_su_func}
 # execute the per-test tear-down function
 tearDown
done
unset _su_func
_shunit_generateReport()
_su__awkPercent='{printf("%4d %3.0f%%", $1, $1*100/$2)}'
if [ ${__shunit_testsTotal:-0} -gt 0 ]; then
 _su__passed=`echo ${__shunit_testsPassed} ${__shunit_testsTotal} |\
    awk "${_su__awkPercent}"`
 \_su\_\_failed=`echo $\{\_\_shunit\_testsFailed\} $\{\_\_shunit\_testsTotal\} \mid \\ \\
    awk "${_su__awkPercent}"`
 _su__skipped=`echo ${__shunit_testsSkipped} ${__shunit_testsTotal}
|
    awk "${_su__awkPercent}"`
 _su__total=`echo ${__shunit_testsTotal} 100 |\
    awk '{printf("%4d %3d%%", $1, $2)}"
else
 _su__passed=`echo 0 0 |awk '{printf("%4d %3d%%", $1, $2)}`
 _su__failed=${_su__passed}
 _su__skipped=${_su__passed}
```

```
_su__total=${_su__passed}
fi
cat <<EOF
# Test report
tests passed: ${_su__passed}
tests failed: ${ su failed}
tests skipped: ${_su__skipped}
tests total: ${_su__total}
EOF
unset _su__awkPercent _su__passed _su__failed _su__skipped _su__total
}
# this function is a cross-platform temporary directory creation tool. not all
# OSes have the mktemp function, so one is included here.
_shunit_mktempDir()
# try the standard mktemp function
(exec mktemp -dqt shunit.XXXXXX 2>/dev/null) && return
# the standard mktemp didn't work. doing our own.
if [ -r '/dev/urandom' ]; then
 _su\_random=\od -vAn -N4 -tx4 </dev/urandom | sed 's/^[^0-9a-f]*//^
elif [ -n "${RANDOM:-}" ]; then
 # $RANDOM
works
 _su__random=${RANDOM}${RANDOM}$$
else
 # $RANDOM doesn't work
 su date=`date '+%Y%m%d%H%M%S'`
 _su__random=`expr ${_su__date} / $$`
fi
_su__tmpDir="${TMPDIR:-/tmp}/shunit.${_su__random}"
( umask 077 && mkdir "\{su\_tmpDir\}" ) || {
 echo 'shUnit:FATAL could not create temporary directory! exiting' >&2
 exit 1
}
echo ${_su__tmpDir}
unset _su__date _su__random _su__tmpDir
# this function is here to work around issues in Cygwin
```

```
_shunit_mktempFunc()
for _su__func in oneTimeSetUp oneTimeTearDown setUp tearDown suite; do
 _su__file="${__shunit_tmpDir}/${_su__func}"
 cat <<EOF >"${_su__file}"
#!/bin/sh
exit 0
EOF
 chmod +x "${_su__file}"
done
unset _su__file
}
_shunit_shouldSkip()
[ ${__shunit_skip} -eq ${SHUNIT_FALSE} ] && return ${SHUNIT_FALSE}
_shunit_testSkipped
}
_shunit_testPassed()
{
__shunit_testsPassed=`expr ${ __shunit_testsPassed} + 1`
__shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
}
_shunit_testFailed()
 _su__msg=$1
__shunit_testsFailed=`expr ${__shunit_testsFailed} + 1`
__shunit_testsTotal=`expr ${ __shunit_testsTotal} + 1`
echo "${__SHUNIT_ASSERT_MSG_PREFIX}${_su__msg}" >&2
unset _su__msg
_shunit_testSkipped()
__shunit_testsSkipped=`expr ${__shunit_testsSkipped} + 1`
__shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
# main
#
# create a temporary storage location
```

```
__shunit_tmpDir=`_shunit_mktempDir`
# setup traps to clean up after ourselves
trap '_shunit_cleanup EXIT' 0
trap '_shunit_cleanup INT' 2
trap '_shunit_cleanup TERM' 15
# create phantom functions to work around issues with Cygwin
_shunit_mktempFunc
PATH="${__shunit_tmpDir}:${PATH}"
# execute the oneTimeSetUp function (if it exists)
oneTimeSetUp
# execute the suite function defined in the parent test script
# deprecated as of 2.1.0
suite
# if no suite function was defined, dynamically build a list
of functions
if [-z "${ shunit suite}"]; then
|sed 's/[^A-Za-z0-9_]//g'
for shunit_func_ in ${shunit_funcs_}; do
 suite_addTest ${shunit_func_}
done
fi
unset shunit_func_ shunit_funcs_
# execute the tests
_shunit_execSuite
# execute the oneTimeTearDown function (if it exists)
oneTimeTearDown
# generate report
_shunit_generateReport
# restore the previous set of shell flags
for shunit_shellFlag_ in ${__SHUNIT_SHELL_FLAGS}; do
echo ${shunit_shellFlags_} |grep ${shunit_shellFlag_} >/dev/null \
 || set +${shunit_shellFlag_}
done
unset shunit_shellFlag_ shunit_shellFlags_
[${__shunit_testsFailed} -eq 0] || exit 1
#/**
```

```
# </s:shelldoc>
            #*/
            Found in path(s):
            */opt/cola/permits/1652866409 1682407787.9506059/0/uci-2015-08-27-1-5-tar-gz/uci-2015-08-
            27.1/test/shunit2/shunit2
1.91 ubus 2015-05-25
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            */
            Found in path(s):
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-
            25/examples/count.h
            */opt/cola/permits/1652876082 1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/examples/client.c
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd_id.h
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusmsg.h
            /opt/cola/permits/1652876082 1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd id.c
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd_obj.h
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd_obj.c
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/examples/count.c
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubus_common.h
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/cli.c
            */opt/cola/permits/1652876082_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd_event.c
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```

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#### Found in path(s):

- \*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus.h
- \*/opt/cola/permits/1652876082 1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd proto.c
- \*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus.c
- \*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd.c

\*

 $/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus-io.cc$ 

\* /opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-

#### 25/examples/server.c

- \*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus-req.c
- \*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/ubusd.h
- \* /opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus-internal.h

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#### Found in path(s):

- \* /opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus-sub.c
- \* /opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/libubus-obj.c No license file was found, but licenses were detected in source scan.

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#### Found in path(s):

\*/opt/cola/permits/1652876082\_1682408846.5900633/0/ubus-2015-0525-tar-gz/ubus-2015-05-25/lua/ubus.c

## 1.92 ubox 2015-11-22

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\* /opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/lsbloader.c No license file was found, but licenses were detected in source scan.

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```
Found in path(s):
```

\*/opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-

#### 22/validate/validate.c

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#### Found in path(s):

- \*/opt/cola/permits/1652909378 1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/log/logd.c
- \* /opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/log/syslog.h
- $*/opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/log/syslog.c$

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- \*/opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/kmodloader.c
- \* /opt/cola/permits/1652909378\_1682465609.0791192/0/ubox-2015-11-22-tar-gz/ubox-2015-11-22/log/logread.c

## 1.93 yajl 2.1.0

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# 1.94 lua-cjson 2.1.0

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