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## 1.3 busybox 1.31.1

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

```
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\*/

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

c) If distribution of the work is made by offering access to copy

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

That's all there is to it!

# 1.9 libxml 2.9.9-3

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Version 2.1, February 1999

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

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

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## 1.11 libdaemon 0.14-5

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\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/jail/elf.h

\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/preload.h

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Found in path(s):

\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/jail/capabilities.c  
\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/jail/capabilities.h

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Package: procd

Version: 2020-03-07-09b9bd82-1

Depends: libc, libssp, librt, libpthread, ubusd, ubus, libjson-script, ubox, libubox20191228, libubus20191227, libblobmsg-json, libjson-c2

Source: package/system/procd

SourceName: procd

License: GPL-2.0

Section: base

Require-User: :dialout=20 :audio=29

Maintainer: John Crispin <john@phrozen.org>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 44901

Description: OpenWrt system process manager

Found in path(s):

\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/ipkg-arm\_cortex-a9\_vfpv3-d16/procd/CONTROL/control

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- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/initd/init.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/watchdog.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/utills/utills.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/service.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/rcS.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/service.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/plug/hotplug.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/watch.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/plug/hotplug.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/watchdog.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/plug/coldplug.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/state.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/system.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/upgraded/upgraded.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/utills/utills.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/procd.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/trigger.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/procd.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/utills/askfirst.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/instance.h
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/signal.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/initd/early.c
- \* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/inittab.c



```
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/log.h
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/initd/preinit.c
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/initd/mkdev.c
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/ubus.c
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/instance.c
```

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```
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Found in path(s):

```
* /opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/rcS.c
```

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\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/sysupgrade.h

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\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/plugin/udevtrigger.c

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\* /opt/cola/permits/1353493185\_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/container.h

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*/
```

Found in path(s):

```
*/opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/initd/init.h
*/opt/cola/permits/1353493185_1657095597.9750097/0/procd-2020-03-07-09b9bd82-zip/procd-2020-03-07-09b9bd82/service/validate.c
```

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## 1.14 sudo 1.8.28

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jloup@gzip.org      madler@alumni.caltech.edu

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

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel

Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura

Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieuwma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby

Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten

Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel



Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.15 ubus 2019-12-27-041c9d1c-1

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Package: ubusd  
Version: 2019-12-27-041c9d1c-1  
Depends: libc, libssp, librt, libpthread, libubox20191228, libblobmsg-json  
Source: package/system/ubus  
SourceName: ubusd  
License: LGPL-2.1  
Section: base  
Maintainer: Felix Fietkau <nbd@nbd.name>  
Architecture: arm\_cortex-a9\_vfpv3-d16  
Installed-Size: 10977  
Description: OpenWrt RPC daemon

Found in path(s):

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-arm\_cortex-a9\_vfpv3-d16/ubusd/CONTROL/control  
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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd.c

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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/libubus-req.c

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd.h

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-install/usr/include/libubus.h

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/examples/server.c

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd\_proto.c

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/libubus-internal.h

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/libubus.c

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Package: libubus20191227

Version: 2019-12-27-041c9d1c-1

Depends: libc, libssp, librt, libpthread, libubox20191228

Provides: libubus

Source: package/system/ubus

SourceName: libubus

License: LGPL-2.1

Section: libs

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 9608

Description: OpenWrt RPC client library

Found in path(s):

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-arm\_cortex-a9\_vfpv3-d16/libubus/CONTROL/control

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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/libubus-acl.c

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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/libubus-obj.c

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Found in path(s):

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/luasrc/ubus.c

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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd\_acl.c

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Package: ubus

Version: 2019-12-27-041c9d1c-1

Depends: libc, libssp, librt, libpthread, libubus20191227, libblobmsg-json, ubusd

Source: package/system/ubus  
SourceName: ubus  
License: LGPL-2.1  
Section: base  
Maintainer: Felix Fietkau <nbd@nbd.name>  
Architecture: arm\_cortex-a9\_vfpv3-d16  
Installed-Size: 6118  
Description: OpenWrt RPC client utility

Found in path(s):

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-arm\_cortex-a9\_vfpv3-d16/ubus/CONTROL/control  
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\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd\_monitor.c  
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Found in path(s):

\* /opt/cola/permits/1353493243\_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd\_event.c

```
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd_id.c
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/cli.c
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/examples/count.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubus_common.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusmsg.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-install/usr/include/ubus_common.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd_id.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ipkg-install/usr/include/ubusmsg.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/examples/count.c
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/examples/client.c
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd_obj.h
* /opt/cola/permits/1353493243_1657095685.454028/0/ubus-2019-12-27-041c9d1c-zip/ubus-2019-12-27-041c9d1c/ubusd_obj.c
```

## 1.16 libgcc 4.4.1

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```

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```
*/opt/cola/permits/1357839059_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/lsbloder.c
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\* /opt/cola/permits/1357839059\_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/kmodloader.c

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Package: ubox

Version: 2019-06-16-4df34a4d-3

Depends: libc, libssp, librt, libpthread, libubox20191228, ubusd, ubus, libubus20191227, libuci20130104

Source: package/system/ubox

SourceName: ubox

License: GPL-2.0

Section: base

Maintainer: John Crispin <john@phrozen.org>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 15699

Description: OpenWrt system helper toolbox

Found in path(s):

\* /opt/cola/permits/1357839059\_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/ipkg-arm\_cortex-a9\_vfpv3-d16/ubox/CONTROL/control

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\* /opt/cola/permits/1357839059\_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/log/syslog.h

\* /opt/cola/permits/1357839059\_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/log/logd.c

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Package: logd

Version: 2019-06-16-4df34a4d-3

Depends: libc, libssp, librt, libpthread, libubox20191228, libubus20191227, libblobmsg-json

Source: package/system/ubox

SourceName: logd

License: GPL-2.0

Section: base

Maintainer: John Crispin <john@phrozen.org>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 11333

Description: OpenWrt system log implementation

Found in path(s):

\* /opt/cola/permits/1357839059\_1657095663.9212294/0/ubox-2019-06-16-4df34a4d-zip/ubox-2019-06-16-4df34a4d/ipkg-arm\_cortex-a9\_vfpv3-d16/logd/CONTROL/control

## 1.19 glibc 2.30

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@end enumerate

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When a ``work that uses the Library'' uses material from a header file

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@subheading END OF TERMS AND CONDITIONS

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

## 1.20 popt 1.16-2

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## 1.24 jsonfilter 2014/6/19

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```
/*
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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1070658153_1594968570.84/0/jsonfilter-2014-06-19-
cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/lexer.c
*/opt/ws_local/PERMITS_SQL/1070658153_1594968570.84/0/jsonfilter-2014-06-19-
cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/parser.y
```

\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/lexer.h  
\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/ast.h  
\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/matcher.h  
\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/ast.c  
\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/matcher.c  
\* /opt/ws\_local/PERMITS\_SQL/1070658153\_1594968570.84/0/jsonfilter-2014-06-19-cdc760c58077f44fc40adbbe41e1556a67c1b9a9-tar-gz/jsonfilter-2014-06-19/main.c

## 1.25 avahi 0.8

### 1.25.1 Available under license :

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Version 2.1, February 1999

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

That's all there is to it!

## 1.28 libubox 2020-05-25

### 1.28.1 Available under license :

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

```
/*
 * uloop - event loop implementation
 *
 * Copyright (C) 2010-2016 Felix Fietkau <nbd@openwrt.org>
 *
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*/
```

Found in path(s):

```
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/uloop.c
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/uloop-kqueue.c
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-
```



66195aee/uloop-epoll.c

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/\*

\* blob - library for generating/parsing tagged binary data

\*

\* Copyright (C) 2010 Felix Fietkau <nbd@openwrt.org>

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\*/

Found in path(s):

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blob.h

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blob.c

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/blob.h

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/\*

\* runqueue.c - a simple task queueing/completion tracking helper

\*

\* Copyright (C) 2013 Felix Fietkau <nbd@openwrt.org>

\*

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\*/

Found in path(s):

```
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/runqueue.h
```

```
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/runqueue.h
```

```
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/runqueue.c
```

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Package: libblobmsg-json

Version: 2020-05-25-66195aee-1

Depends: libc, libssp, librt, libpthread, libjson-c2, libubox20191228

Source: package/libs/libubox

SourceName: libblobmsg-json

License: ISC

Section: libs

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 3938

Description: blobmsg <-> json conversion library

Found in path(s):

```
* /opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-arm_cortex-a9_vfpv3-d16/libblobmsg-json/CONTROL/control
```

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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 &lt;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 ${SHUNIT_ERROR}
  fi
  if [ -z "${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^(.)^1 /g^`
do
  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`
fi
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}
  fi
  _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>
# <funcprototype>
# <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</literal>,
# 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}
  fi
  _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</literal>, or in shell terms not
# 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}
  fi
  _shunit_shouldSkip && return ${SHUNIT_TRUE}
}

```

```

if [ $# -eq 2 ]; then
    assertTrue "$1" "[ -n '$2' ]"
else
    assertTrue "[ -n '${1:-}' ]"
fi
}
_ASSERT_NOT_NULL_='eval assertNotNull --lineno "${LINENO:-}"'

```

```

/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <functsynopsis>
# <funcprototype>
# <funcdef><function>assertSame</function></funcdef>
# <paramdef>string <parameter>[message]</parameter></paramdef>
# <paramdef>string <parameter>expected</parameter></paramdef>
# <paramdef>string <parameter>actual</parameter></paramdef>
# </funcprototype>
# </functsynopsis>
# <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}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}
}

```

```

if [ $# -eq 2 ]; then
    assertEquals "$1" "$2"
else
    assertEquals "$1" "$2" "$3"
fi
}
_ASSERT_SAME_='eval assertEquals --lineno "${LINENO:-}"'

```

```

/**
# <s:function group="asserts">
# <entry align="right">

```

```

# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <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>
# <funcprototype>
# <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 following 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}
    fi
    _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}
  fi
  _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}
    fi
    _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>
# <funcprototype>
# <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}
  fi
  _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"
  else
    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
# <literal>test</literal>, and they will be added 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 />
# </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 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} ${__shunit_testsTotal} \|
        awk "${_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.XXXXXXX 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}${RANDOM}${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
  shunit_funcs_=`grep "^[ \t]*test[A-Za-z0-9_]* *()" ${__SHUNIT_PARENT} \
    |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/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/tests/shunit2/shunit2/shunit2

```

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```

/*_

```

```

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/list.h

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/\*

\* safe\_list - linked list protected against recursive iteration with deletes

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/safe\_list.c

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/safe\_list.h

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/\*

\* ulog - simple logging functions

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/uolog.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/uolog.h

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Found in path(s):

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/vlist.c  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/avl-cmp.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/vlist.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/avl-cmp.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/vlist.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/avl-cmp.c

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Package: libubox20191228

Version: 2020-05-25-66195aee-1

Depends: libc, libssp, librt, libpthread

Provides: libubox

Source: package/libs/libubox  
SourceName: libubox  
License: ISC  
Section: libs  
Maintainer: Felix Fietkau <nbd@nbd.name>  
Architecture: arm\_cortex-a9\_vfpv3-d16  
Installed-Size: 19203  
Description: Basic utility library

Found in path(s):

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-arm\_cortex-a9\_vfpv3-d16/libubox/CONTROL/control

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\* runqueue-example.c

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\*/opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/tests/test-runqueue.c

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\* base64 - libubox base64 functions

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/base64.c

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\* uloop - event loop implementation

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/uloop.h

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/uloop.h

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```
/*
 * kvlist - simple key/value store
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/kvlist.c
*/opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/kvlist.h
*/opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/kvlist.h
```

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```
# Copyright 2008 Kate Ward. All Rights Reserved.
# Released under the LGPL (GNU Lesser General Public License)
```

Found in path(s):

```
*/opt/cola/permits/1357835366_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/examples/shunit2
```

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```
/*
 * usock - socket helper functions
 *
 * Copyright (C) 2010 Steven Barth <steven@midlink.org>
 * Copyright (C) 2011-2012 Felix Fietkau <nbd@openwrt.org>
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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/usock.c  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/usock.h

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blobmsg.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blobmsg\_json.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/blobmsg.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blobmsg.c  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/blobmsg\_json.h  
\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/blobmsg\_json.c

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Package: libjson-script  
Version: 2020-05-25-66195aee-1  
Depends: libc, libssp, librt, libpthread, libubox20191228  
Source: package/libs/libubox  
SourceName: libjson-script  
License: ISC  
Section: utils  
Maintainer: Felix Fietkau <nbd@nbd.name>  
Architecture: arm\_cortex-a9\_vfpv3-d16  
Installed-Size: 4867  
Description: Minimalistic JSON based scripting engine

Found in path(s):

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-arm\_cortex-a9\_vfpv3-d16/libjson-script/CONTROL/control

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\* utils - misc libubox utility functions

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/utils.h

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/utils.h

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\* PacketBB handler library (see RFC 5444)

\* Copyright (c) 2010 Henning Rogge <hrogge@googlemail.com>

\* Original OLSRd implementation by Hannes Gredler <hannes@gredler.at>



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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/avl.c

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/avl.h

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Package: jshn

Version: 2020-05-25-66195aee-1

Depends: libc, libssp, librt, libpthread, libjson-c2, libubox20191228, libblobmsg-json

Source: package/libs/libubox

SourceName: jshn

License: ISC

Section: utils

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 6986

Description: Library for parsing and generating JSON from shell scripts

Found in path(s):

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-arm\_cortex-a9\_vfpv3-d16/jshn/CONTROL/control

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\* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.

\* MD5 Message-Digest Algorithm (RFC 1321).

\*

\* Homepage:

\* <http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5>

\*

\* Author:

\* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>

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\*  
\* This differs from Colin Plumb's older public domain implementation in that  
\* no exactly 32-bit integer data type is required (any 32-bit or wider  
\* unsigned integer data type will do), there's no compile-time endianness  
\* configuration, and the function prototypes match OpenSSL's. No code from  
\* Colin Plumb's implementation has been reused; this comment merely compares  
\* the properties of the two independent implementations.  
\*  
\* The primary goals of this implementation are portability and ease of use.  
\* It is meant to be fast, but not as fast as possible. Some known  
\* optimizations are not included to reduce source code size and avoid  
\* compile-time configuration.  
\*/

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/md5.c

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\* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.  
\* MD5 Message-Digest Algorithm (RFC 1321).

\*

\* Homepage:

\* <http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5>

\*

\* Author:

\* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/md5.h

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\* ustream - library for stream buffer management

\*

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ipkg-install/usr/include/libubox/ustream.h

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/ustream-fd.c

\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-

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\* /opt/cola/permits/1357835366\_1657095493.614196/0/libubox-2020-05-25-66195aee-zip/libubox-2020-05-25-66195aee/json\_script.h

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# 1.29 gdbm 1.11

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

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)  
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--- end ---

## 1.31 libmicrohttpd 0.9.62

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Ty Coon, President of Vice
```

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## 1.33 ziplib 1

### 1.33.1 Available under license :

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```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project
```

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<http://www.winimage.com/zLibDll/minizip.html>

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson

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/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html> )

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-----  
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## Changes

See header of unzip64.c

\*/

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/\* minizip.c

Version 1.1, February 14h, 2010

sample part of the MiniZip project

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```
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part of the MiniZip project
```

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Modifications for AES, PKWARE disk spanning
Copyright (C) 2010-2014 Nathan Moinvaziri
```

```
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*/
```

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

```
/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

```
Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )
```

```
Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault
```

```
Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )
```

```
For more info read MiniZip_info.txt
```

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

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See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1070658295\_1594784558.54/0/ziplib-tar-gz/ziplib/zlib.h

## 1.34 libuuid 2.34-1

### 1.34.1 Available under license :

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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```

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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## 1.35 safeclib 4.0.45

### 1.35.1 Available under license :

Cisco Safe C Library

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## 1.36 bzip2 1.0.8



# 1.37 uci 2019-09-01-415f9e48-4

## 1.37.1 Available under license :

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```
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* blob.c - uci <-> blobmsg conversion layer
* Copyright (C) 2012-2013 Felix Fietkau <nbd@openwrt.org>
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*/
```

Found in path(s):

```
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/uci_blob.h
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-install/usr/include/uci_blob.h
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/blob.c
```

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```
/*
* libuci - Library for the Unified Configuration Interface
* Copyright (C) 2008 Felix Fietkau <nbd@openwrt.org>
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*/
```

Found in path(s):

```
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/libuci.c
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/file.c
```

\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/util.c  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/list.c  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-install/usr/include/uci.h  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/delta.c  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/parse.c  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/uci\_internal.h  
\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/uci.h

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Package: libuci20130104

Version: 2019-09-01-415f9e48-4

Depends: libc, libssp, librt, libpthread, libubox20191228

Provides: libuci

Source: package/system/uci

SourceName: libuci

License: LGPL-2.1

Section: libs

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 15543

Description: C library for the Unified Configuration Interface (UCI)

Found in path(s):

\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-arm\_cortex-a9\_vfpv3-d16/libuci/CONTROL/control

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/\*

\* cli - Command Line Interface for the Unified Configuration Interface

\* Copyright (C) 2008 Felix Fietkau <nbd@openwrt.org>

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\*/

Found in path(s):

\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/cli.c

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Package: uci

Version: 2019-09-01-415f9e48-4

Depends: libc, libssp, librt, libpthread, libuci20130104

Source: package/system/uci

SourceName: uci

License: LGPL-2.1

Section: base

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: arm\_cortex-a9\_vfpv3-d16

Installed-Size: 7691

Description: Utility for the Unified Configuration Interface (UCI)

Found in path(s):

\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-arm\_cortex-a9\_vfpv3-d16/uci/CONTROL/control

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/\*

\* ucimap.c - Library for the Unified Configuration Interface

\* Copyright (C) 2008-2009 Felix Fietkau <nbd@openwrt.org>

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\*/

Found in path(s):

\* /opt/cola/permits/1353495105\_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ucimap.c

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

/\*

\* ucimap.h - Library for the Unified Configuration Interface

\* Copyright (C) 2008-2009 Felix Fietkau <nbd@openwrt.org>

\*

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* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU Lesser General Public License for more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ucimap.h
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-install/usr/include/ucimap.h
```

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

```
/*
```

```
* libuci plugin for Lua
* Copyright (C) 2008 Felix Fietkau <nbd@openwrt.org>
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*/
```

Found in path(s):

```
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/luau/uci.c
```

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

```
# $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 &lt;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 ${SHUNIT_ERROR}
  fi
  if [ -z "${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/^(.)\1 /g`
do
  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`
fi
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}
  fi
  _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>
# <funcprototype>
# <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</literal>,
# 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}
  fi
  _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</literal>, or in shell terms not
# 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}
  fi
  _shunit_shouldSkip && return ${SHUNIT_TRUE}

  if [ $# -eq 2 ]; then
    assertTrue "$1" "[ -n '$2' ]"
  else
    assertTrue "[ -n '${1:-}' ]"
  fi
}
_ASSERT_NOT_NULL_='eval assertNotNull --lineno "${LINENO:-}'"

/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <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}
  fi
  _shunit_shouldSkip && return ${SHUNIT_TRUE}

  if [ $# -eq 2 ]; then
    assertEquals "$1" "$2"
  else
    assertEquals "$1" "$2" "$3"
  fi
}

```

```

fi
}
_ASSERT_SAME_='eval assertSame --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <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>
# <funcprototype>
# <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}
  fi
  _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 following 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() requires one or two arguments'
    return ${SHUNIT_ERROR}
  fi
  _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}
    fi
    _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>
# <funcprototype>
# <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}
    fi
    _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"
  else
    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>
# <functsynopsis>
# <funcprototype>
# <funcdef><function>startSkipping</function></funcdef>
# <paramdef />
# </funcprototype>
# </functsynopsis>
# <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
# <literal>test</literal>, and they will be added 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>
```

```
# <functsynopsis>
```

```
# <funcprototype>
```

```
# <funcdef><function>oneTimeSetUp</function></funcdef>
```

```
# <paramdef />
```

```
# </funcprototype>
```

```
# </functsynopsis>
```

```
# <para>This function can 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>
```

```
# <functsynopsis>
```

```
# <funcprototype>
```

```
# <funcdef><function>oneTimeTearDown</function></funcdef>
```

```
# <paramdef />
```

```
# </funcprototype>
```

```
# </functsynopsis>
```

```
# <para>This function can 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} ${__shunit_testsTotal} \|
awk "${_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.XXXXXXX 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}${RANDOM}${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
shunit_funcs_=`grep "^[ \t]*test[A-Za-z0-9_]* *()" ${__SHUNIT_PARENT} \
|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/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/test/shunit2/shunit2
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/.pkgdir/uci/lib/config/uci.sh
* /opt/cola/permits/1353495105_1657095708.2782257/0/uci-2019-09-01-415f9e48-zip/uci-2019-09-01-415f9e48/ipkg-arm_cortex-a9_vfpv3-d16/uci/lib/config/uci.sh

```

## 1.38 libwebsockets 3.1.0

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- test-apps/\*.h
- minimal-examples/\*
- lwsws/\*

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Version 2.1, February 1999

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## 1.40 tiny-xml 2.6.2

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```
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<a name="l00012"></a>00012 <span class="comment">1. The origin of this software must not be misrepresented;
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<a name="l00017"></a>00017 <span class="comment">2. Altered source versions must be plainly marked as such,
and</span>
<a name="l00020"></a>00020 <span class="comment">3. This notice may not be removed or altered from any
source</span>
```

Found in path(s):

```
* /opt/cola/permits/1228782719_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tyinstr_8h_source.html
```

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```
/*
```

```
www.sourceforge.net/projects/tinyxml
```

```
Original code by Lee Thomason (www.grinninglizard.com)
```

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\*/

Found in path(s):

\* /opt/cola/permits/1228782719\_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.h

\* /opt/cola/permits/1228782719\_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.cpp

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[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

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/\*\* @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.



The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>. An intro to XML (that I really like) can be found at <http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

## <h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out [www.sourceforge.org](http://www.sourceforge.org), search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

## <h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

## <h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site ([www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

## <h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>

<li> <b>TinyXPath</b> (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>

<li> <b>TinyXML++</b> (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>

</ul>

## <h2> Features </h2>

### <h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the `std::string` class, and fully supports `std::istream`, `std::ostream`, `operator<<`, and `operator>>`. Many API methods have both `'const char*'` and `'const std::string&'` forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the `'const char*'` form for input.

Use the compile time `#define`:

`TIXML_USE_STL`

to compile one version or the other. This can be passed by the compiler,

or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML\_USE\_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML\_USE\_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML\_DEFAULT\_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

<ol>

<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.</li>

<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>

</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML\_ENCODING\_LEGACY ) or LoadFile( filename, TIXML\_ENCODING\_LEGACY ). You may force it to use legacy mode all the time by setting TIXML\_DEFAULT\_ENCODING = TIXML\_ENCODING\_LEGACY. Likewise, you may force it to TIXML\_ENCODING\_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!

TinyXML does not use or directly support wchar, TCHAR, or Microsoft's \_UNICODE at this time.

It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding

of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.

Text encoded as SHIFT-JIS can not be read by TinyXML.

A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

### <h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions

of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:

The syntax "&#xA0;" or "&#160;" are both to the non-breaking space character.

### <h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE\* ). Output to a std-C stream, which includes all C files as well as stdout.
  - "Pretty prints", but you don't have control over printing options.
  - The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
  - used by Print() and SaveFile()
- operator<<. Output to a c++ stream.
  - Integrates with standard C++ iostreams.
  - Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
- TiXmlPrinter. Output to a std::string or memory buffer.
  - API is less concise
  - Future printing options will be put here.
  - Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

With TIXML\_USE\_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE\*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE\*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE\*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '\_' is a space, and look at "Hello\_\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_\_world\_\_ should become Hello\_\_\_world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
```

```

TiXmlElement* child = element->FirstChildElement( "Child" );
if ( child )
{
    TiXmlElement* child2 = child->NextSiblingElement( "Child" );
    if ( child2 )
    {
        // Finally do something useful.
    }
}
@endverbatim

```

Handles have been introduced to clean this up. Using the `TiXmlHandle` class, the previous code reduces to:

```

@verbatim
TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element" ).Child( "Child", 1
).ToElement();
if ( child2 )
{
    // do something useful
}
@endverbatim

```

Which is much easier to deal with. See `TiXmlHandle` for more information.

### <h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The `TiXmlBase::Row()` and `TiXmlBase::Column()` methods return the origin of the node in the source text. The correct tabs can be configured in `TiXmlDocument::SetTabSize()`.

## <h2> Using and Installing </h2>

To Compile and Run `xmltest`:

A Linux Makefile and a Windows Visual C++ `.dsw` file is provided. Simply compile and run. It will write the file `demotest.xml` to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and

MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app, STL </li>

</ul>

<h3>Makefile</h3>

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML\_USE\_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

@verbatim

```
<?xml version="1.0" standalone=no>
```

```
<!-- Our to do list data -->
```

```
<ToDo>
```

```
<Item priority="1"> Go to the <b>Toy store!</b></Item>
```

```
<Item priority="2"> Do bills</Item>
```

```
</ToDo>
```

@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

@verbatim

```
TiXmlDocument doc( "demo.xml" );
```

```
doc.LoadFile();
```

@endverbatim



And its ready to go. Now lets look at some lines and how they relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument  "demo.xml"
TiXmlDeclaration "version='1.0' "standalone=no"
TiXmlComment   " Our to do list data"
TiXmlElement   "ToDo"
TiXmlElement   "Item" Attributes: priority = 1
  TiXmlText   "Go to the "
  TiXmlElement "bold"
  TiXmlText   "Toy store!"
TiXmlElement   "Item" Attributes: priority=2
  TiXmlText   "Do bills"
@endverbatim
```

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

<h2> License </h2>

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <http://www.w3.org/TR/2004/REC-xml-20040204/>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton  
\*/

Found in path(s):

\* /opt/cola/permits/1228782719\_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt  
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Found in path(s):

\* /opt/cola/permits/1228782719\_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlerror.cpp

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\* /opt/cola/permits/1228782719\_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlparser.cpp

## 1.41 expat 2.2.9

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## 1.42 linux-kernel 4.14.229

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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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```

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\* along with this program; if not, write to the Free Software  
\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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# 1.46 jq 1.6-1

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