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pjlib; a cross-platform portability library,  
pjlib-util; an adjunct library to pjlib which provides various utility functions,  
pjnath; a NAT traversal helper library  
pjmedia; a multimedia communications library,  
pjmedia-codec; a placeholder library to support various multimedia codecs,  
pjsip; a SIP protocol stack collections

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#### ACE Timer Heap Software

Timer heap management of Adaptive Communication Framework (ACE)

#### Author

Douglas C. Schmidt and his research group at Washington University, University of California, Irvine, and Vanderbilt University, Copyright (c) 1993-2006, all rights reserved

#### Location

pjlib/timer.[hc]

#### Description

The timer heap in PJLIB was based on ACE's Timer\_Heap

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This code is integral part of the library and can not be disabled.

#### Alaw/Ulaw Converter Software

Alaw/ulaw conversion algorithm

#### Author

Sun Microsystems, Inc

#### Location

pjmedia/alaw\_ulaw.c

#### Description

PCM Alaw and U-law conversion.

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Sun Microsystems, Inc.  
2550 Garcia Avenue  
Mountain View, California 94043

#### Using the Software

This software is not used by default unless PJMEDIA\_HAS\_ALAW\_ULAW\_TABLE is disabled. When PJMEDIA\_HAS\_ALAW\_ULAW\_TABLE is enabled (the default setting), a table based alaw/ulaw conversion will be used instead.

#### CRC32 Algorithm

##### Software

CRC32 algorithm

##### Author

Unknown

##### Location

pjlib-util/crc32.c

##### License

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This is an implementation of CRC32. See ISO 3309 and ITU-T V.42 for a formal specification

This file is partly taken from Crypto++ library(<http://www.cryptopp.com>) and <http://www.dimgt.com.au/crypto.html#CRC>.

Since the original version of the code is put in public domain, this file is put on public domain as well.

#### Using the Software

This code is needed by the STUN implementation in PJNATH and can not be disabled.

#### MD5 Hashing Algorithm

##### Software

MD5 hashing implementation

##### Author

Written by Colin Plumb in 1993 based on MD5 algorithm by Ron Rivest, no copyright is claimed.

##### Location

pjlib-util/md5.c

##### Description

MD5 hashing for digest authentication.

## License

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish. Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

## Using the Software

This code is needed by SIP digest authentication procedure, and can not be disabled.

## SHA1 Encryption

### Software

SHA1 encryption

## Authors

Steve Reid, James H. Brown, Saul Kravitz, Ralph Giles

## Location

pjlib-util/sha1.c

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SHA-1 in C

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Modified to run on Compaq Alpha hardware.

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Modified 07/2002

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GNU Getopt  
Software

Command line parsing library, part of GNU LIBC

Author

Copyright (C) 1987,88,89,90,91,92,93,94,96,97 Free Software Foundation, Inc.

Location

pjlib-util/getopt.[hc]

Description

Command line parsing library that is used by our sample applications.

License

Distributed under opensource GNU LGPL.

Using the Software

This code will only be linked if applications explicitly call `pj_getopt()` or `pj_getopt_long()`. Normally application doesn't need to use this, since this functionality is useful for command line/console types of applications only.

Milenage and Rijndael

Software

Milenage

Author

The implementation was taken from 3GPP TS 35.206 V7.0.0 document.

Location

third\_party/milenage/

Description

Milenage algorithm is used for AKAv1-MD5 and AKAv2 SIP digest authentication.

License

Please consult 3GPP TS documents

The 3GPP authentication and key generation functions (MILENAGE) have been developed through the collaborative efforts of the 3GPP Organizational Partners.

They may be used only for the development and operation of 3G Mobile Communications and services. There are no additional requirements or authorizations necessary for these algorithms to be implemented.

Using the Software

The Milenage and Rijndael implementation will only be linked with application if AKA authentication is used and application explicitly calls or makes reference to `pjsip_auth_create_aka_response()` function.

libSRTP

Software

libSRTP

Author

David A. McGrew, Cisco Systems, Inc.

Location

third\_party/srtp/

#### Description

libSRTP implements Secure RTP/RTCP (SRTP and SRTCP).

#### License

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#### Using the Software

Copy of libSRTP is included in PJSIP distribution, and it is built by default on all supported platforms. SRTP functionality is also enabled by default. If you wish to disable SRTP, declare PJMEDIA\_HAS\_SRTP macro to zero.

#### DirectShow Base Classes Microsoft SDK Sample Software

DirectShow Base Classes

#### Author

Microsoft

#### Location

third\_party/BaseClasses/

#### Description

The DirectShow base classes are a set of C++ classes and utility functions designed for implementing DirectShow filters. Several of the helper classes are also useful for application developers.

#### License

Microsoft Windows SDK Licence (Licence.htm in Windows SDK installation directory)

Sample Code. You may modify, copy, and distribute the source and object code form of code marked as ?sample.?

#### Using the Software

Used in DirectShow device driver for video capture support on Windows platform. If you wish to disable it define macro PJMEDIA\_VIDEO\_DEV\_HAS\_DSHOW to 0. This will disable video capture on Windows.

## External Third Party Software

PJSIP may be linked with these external third party software.

### OpenSSL Software

<http://www.openssl.org/>

### Author

OpenSSL Project

### Location

`pjlib/src/pj/ssl_sock_ossl.c`

### Description

OpenSSL is used as the backend implementation of PJLIB's secure socket, which among other thing is used by PJSIP's SIP TLS transport object.

### License

The OpenSSL library is licensed under Apache-style license, but this is deemed to be incompatible with GPL.

### Using the Software

The library will use OpenSSL if PJ\_HAS\_SSL\_SOCKET is set to non-zero. It is detected automatically with the GNU build system, and must be set manually on other build systems (e.g. Windows and Symbian)

### bcg729

#### Software

<http://www.linphone.org/technical-corner/bcg729>

### Location

`pjmedia/include/pjmedia-codec/bcg729.h`  
`pjmedia/src/pjmedia-codec/bcg729.c`

### Description

G.729 codec using backend implementation from bcg729.

### License

Please consult the bcg729 website.

### Using the Software

bcg729 may be detected and enabled by the configure script, either automatically or manually via `--with-bcg729` option. It may be forcefully disabled by defining PJMEDIA\_HAS\_BCG729 to 0 in `config_site.h`.

## Deprecated Third Party Software

This section contains information about third party software which was used in the past and subsequently has been deprecated in favor of new algorithm. You may or may not be affected by the licensing requirements of the software, depending on whether your PJSIP software version contains copy of the software.

Adaptive Silence Detection  
Software  
Adaptive Silence Detection

Author  
OpenH323 Project

Location  
pjmedia/silencedet.[hc]

Description  
The adaptive silence detector was based on adaptive silence detector implementation in Open H423 project.

License  
This software is distributed under opensource Mozilla MPL terms:

Open H423 Library

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The Original Code is Open H423 Library.

The Initial Developer of the Original Code is Equivalence Pty. Ltd.

Portions of this code were written with the assistance of funding from Vovida Networks, Inc.

<http://www.vovida.com>.

Using the Software  
This software is used by various codecs and also by the conference bridge, and can not be disabled.

Deprecated in:  
This software has been removed and/or replaced in PJSIP version 1.0-rc1.

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### Open Source Software Used

OSS Component	Version	License
alsa-lib	1.1.2	LGPLv2.1 GPLv2+
alsa-plugins	1.1.1	LGPLv2.1 GPLv2+



alsa-state	0.2.0	MIT
alsa-utils	1.1.2	GPLv2+
base-files	3.0.14	GPLv2
base-passwd	3.5.29	GPLv2+
bash	3.2.57	GPLv2+
bluez5	5.50	GPLv2+ LGPLv2.1+
bootastic-gc	1.0	GPLv2
busybox	1.24.1	GPLv2 bzip2
bzip2	1.0.6	bzip2
ca-certificates	20160104	GPL-2.0+ MPL-2.0
cppfs	1.0	MIT
curl	7.50.1	MIT
dbus	1.10.10	AFL-2 GPLv2+
dropbear	2016.74	MIT BSD-3-Clause BSD-2-Clause PD
dspg-alsa-conf	1.0	LGPLv2.1
ethtool	4.6	GPLv2+
eudev	3.2	GPLv2.0+ LGPL-2.1+
expat	2.2.0	MIT
flac	1.3.1	GFDL-1.2 GPLv2+ LGPLv2.1+ BSD
fontconfig	2.12.1	MIT-style MIT PD
freetype	2.6.5	FreeType GPLv2+
gcc-runtime	6.4.0	GPL-3.0-with-GCC-exception
glib-2.0	2.48.2	LGPLv2+ BSD PD
glibc	2.24	GPLv2 LGPLv2.1
glibc-locales	2.24	GPLv2 LGPLv2.1
gmp	6.1.1	GPLv2+
gnutls	3.5.3	LGPLv2.1+
hidapi	0.7.99+0.8.0-rc1+gitAUTOINC+d17db57b9d	BSD-3-Clause
initscripts	1.0	GPLv2
iproute2	4.7.0	GPLv2+
iptables	1.6.0	GPLv2+
iputils	s20151218	BSD GPLv2+
jsoncpp	1.8.3	MIT
kmod	23+gitAUTOINC+65a885df5f	LGPL-2.1+
leveldb	1.20	BSD-3-Clause
libarchive	3.2.2	BSD
libbsd	0.8.3	BSD-4-Clause ISC PD
libcap	2.25	BSD
libevent	2.0.22	BSD
libffi	3.2.1	MIT
libgcc	6.4.0	GPL-3.0-with-GCC-exception
libgcrypt	1.7.3	LGPLv2.1+
libgpg-error	1.24	GPLv2+ LGPLv2.1+
libidn	1.33	LGPLv2.1+
libjpeg-turbo	1.5.0	BSD-3-Clause
libmcrypt	2.5.8	LGPLv2.1
libnl	3.2.28	LGPLv2.1
libogg	1.3.2	BSD
libpam	1.3.0	BSD
libpcap	1.7.4	BSD
libpcre	8.39	BSD
libpng	1.6.24	Libpng
libsamplerate0	0.1.8	GPLv2+

libsdl	1.2.15	LGPLv2.1
libsndfile1	1.0.27	LGPLv2.1
libtool	2.4.6	GPLv2 LGPLv2.1
libunwind	1.1+gitAUTOINC+bc8698fd7e	MIT
libusb1	1.0.20	LGPLv2.1+
libvorbis	1.3.5	BSD
libxml2	2.9.4	MIT
lighttpd	1.4.41	BSD
linux-dspg-gc	4.9	GPLv2
lldpd	0.9.9	ISC
logrotate	3.9.1	GPLv2
lrzsz	0.12.20	GPLv2+
lsof	4.89	BSD
lzo	2.09	GPLv2+
modutils-initscripts	1.0	PD
mosquitto	1.4.10	BSD
mpg123	1.23.6	LGPLv2.1
mtd-utils	1.5.2	GPLv2+
ncurses	6.0+20160625	MIT
netbase	5.3	GPLv2
nettle	3.2	GPLv2+
ntp	4.2.8p9	NTP
openldap	2.4.44	OpenLDAP
openssl	1.0.2j	openssl
opkg	0.3.3	GPLv2+
opkg-arch-config	1.0	MIT
opkg-utils	0.3.2+gitAUTOINC+3ffece9bf1	GPLv2+
paho-mqtt-c	0.x+gitAUTOINC+93a064dbe9	EPL-1.0 EDL-1.0
paho-mqtt-cpp	0.x+gitAUTOINC+07a2ec44e4	EPL-1.0 EDL-1.0
perl	5.22.1	Artistic-1.0 GPL-1.0+
php	5.6.38	PHP-3.0
php-mosquitto	1.0.0	MichaelMclean
php-pam	1.0.3	PHP-3.0
pjsip	2.4.5	GPLv2
popt	1.16	MIT
procps	3.3.12	GPLv2+ LGPLv2+
readline	5.2	GPLv2+
rehash	1.0	MIT
rsync	2.6.9	GPLv2+
run-postinsts	1.0	MIT
setserial	2.17	GPLv2.0
shadow	4.2.1	BSD
shadow-securetty	4.2.1	MIT
speexdsp	1.2rc3	BSD
sqlite3	3.14.1	PD
sqlitecpp	2.2.0	MIT
sysvinit	2.88dsf	GPLv2+
sysvinit-inittab	2.88dsf	GPLv2
tcpdump	4.9.0	BSD
ttf-noto-arabic	1.0	OFL-1.1
ttf-roboto	1.0	Apache-2.0
tzdata	2019c	PD BSD BSD-3-Clause
u-boot-fw-utils-gc	2015.01	GPLv2+

u-boot-gc	2015.01	GPLv2+
unzip	6.0	BSD-3-Clause
update-rc.d	0.7	GPLv2+
usbhid-dump	1.0	GPLv2
util-linux	2.28.1	GPLv2+ LGPLv2.1+ BSD
zip	3.0	BSD-3-Clause
zlib	1.2.8	Zlib

## Open Source Software Used for WebUI

OSS Component	Version	License
angular-animate.min.js	v1.4.7	MIT
angular-file-upload.min.js	v2.1.1	MIT
angular-messages.min.js	v1.4.7	MIT
angular-mocks.js	v1.4.7	MIT
angular-route.min.js	v1.4.7	MIT
angular.min.js	v1.4.7	MIT
bootstrap-select.min.js	v1.6.3	MIT
bootstrap.min.js	v3.3.5	MIT
browser.min.js	v1.0.0	MIT
eventsourcing.min.js	0.9.7	MIT
FileSaver.min.js	v2.1.4	MIT
jquery-2.1.4.min.js		MIT
moment-timezone-with-data.min.js	0.5.23	MIT
moment.min.js	v2.10.6	MIT
nya-bootstrap-select.js	v1.2.6	MIT
ui-bootstrap-tpls-0.13.4.min.js	v0.13.4	MIT

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### AFL-2

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```
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```

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```
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```

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```
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make passes at assemblers) written by James Hacker.
```

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

That's all there is to it!

GPL-3.0-with-GCC-exception

GCC RUNTIME LIBRARY EXCEPTION  
Version 3.1, 31 March 2009

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

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

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

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

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Version 2, June 1991

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

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

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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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The implementation was written so as to conform with Netscapes SSL.

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