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pjsip

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pjlib; a cross-platform portability library,
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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) Library

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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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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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

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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.di-mgt.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.

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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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By Steve Reid
100% Public Domain

Modified 7/98
By James H. Brown
Still 100% Public Domain

Modified 4/01
By Saul Kravitz
Still 100% PD
Modified to run on Compaq Alpha hardware.

Modified 07/2002
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GNU Getopt

Software

Command line parsing library, part of GNU LIBC

Author

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Location

pjlib-util/getopt.[hc]

Description

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

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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).

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```
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 *
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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.

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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>.

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Deprecated in:

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opkg-utils	0.3.2+gitAUTOINC+3ffece9bfl	GPLv2-or-later
libpcre	8.39	BSD
libffi	3.2.1	MIT
rsync	2.6.9	GPLv2-or-later
libpcap	1.7.4	BSD
libgcc	6.2.0	GPL-3.0-with-GCC-exception
ubox	git-e7a63f	LGPL-2.1
u-boot-fw-utils-gc	2012.04.01	GPLv2-or-later
linuxptp	2.0	GPLv2
procd	git-01f3dc	LGPL-2.1
sqlitecpp	1.3.1	MIT
jsoncpp	1.1.0	MIT
netifd	git-f10765	GPL-2.0
bootastic-gc	1.0	GPLv2
tzdata	2017a	PD BSD BSD-3-Clause
iksemel	1.5	LGPLv2.1

gcc-runtime 6.2.0 GPL-3.0-with-GCC-exception
update-rc.d 0.7 GPLv2-or-later
gawk 3.1.5 GPLv2
popt 1.16 MIT
ubus git-5f87f5 LGPLv2
libnl 3.2.28 LGPLv2.1
openssl 1.0.2o openssl
sqldiff3 3.23.1 PD
ca-certificates 20160104 GPL-2.0-or-later MPL-2.0
libpam 1.3.0 GPLv2-or-later BSD
sqlite3 3.23.1 PD
glib-2.0 2.48.2 LGPLv2-or-later BSD PD
linux-dspg-gc 4.9 GPLv2
zlib 1.2.8 Zlib
base-files-openwrt git-229d60 GPLv2
logrotate 3.9.1 GPLv2
u-boot-gc 2012.04.01 GPLv2-or-later
busybox 1.24.1 GPLv2 bzip2
uci git-5ad59a GPL-2.0
curl 7.60.0 MIT
php-mosquitto 1.0.0 BSD-3-Clause
lighttpd 1.4.50 BSD
rpcd git-820621 ISC
tcpdump 4.9.2 BSD
libxml2 2.9.8 MIT
mosquitto 1.5.4 EPL-1.0 EDL-1.0
boost 1.61.0 BSL-1.0 MIT Python-2.0
libubox git-6eff82 BSD
sshpas 1.05 GPLv2
odhcp6c git-d2e247 GPL-2.0
ethtool 4.6 GPLv2-or-later
run-postinsts 1.0 MIT
sudo 1.8.17p1 ISC BSD Zlib
net-snmp 5.7.3 BSD
bzip2 1.0.6 bzip2
base-passwd 3.5.29 GPLv2-or-later
glibc 2.24 GPLv2 LGPLv2.1
php 7.2.7 PHP-3.0
util-linux 2.28.1 GPLv2-or-later LGPLv2.1-or-later BSD
syslog-ng 3.19.1 GPLv2 LGPLv2.1
jsonfilter git-cdc760 ISC
json-c 0.12 MIT
pjsip 2.8 GPLv2
dropbear 2017.75 MIT BSD-3-Clause BSD-2-Clause PD

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Version 3, 29 June 2007

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bzip2

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application.)

Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Version 2.1, February 1999

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acorn	4.0.13	MIT
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awesome-bootstrap-checkbox	0.3.7	MIT
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aws4	1.7.0	MIT
bcrypt-pbkdf	1.0.1	BSD-3-Clause
bootstrap	3.3.7	MIT
bowser	1.9.4	MIT
canvas	1.6.13	MIT
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```

getpass      0.1.7 MIT
har-schema   2.0.0 ISC
har-validator 5.0.3 ISC
html-encoding-sniffer 1.0.2 MIT
http-signature 1.2.0 MIT
iconv-lite  0.4.24 MIT
is-typedarray 1.0.0 MIT
isstream     0.1.2 MIT
jquery       3.3.1 MIT
jsbn         0.1.1 MIT
jstestdom    9.12.0 MIT
json-schema-traverse 0.3.1 MIT
json-schema 0.2.3 AFLv2.1
json-stringify-safe 5.0.1 ISC
jsprim       1.4.1 MIT
levn         0.3.0 MIT
lodash       4.17.11 MIT
mime-db      1.33.0 MIT
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moment-timezone 0.5.21 MIT
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