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pjsip

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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) 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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Using the Software

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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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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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.

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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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SHA-1 in C

By Steve Reid

100% Public Domain

Modified 7/98

By James H. Brown

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Modified 4/01

By Saul Kravitz

Still 100% PD

Modified to run on Compaq Alpha hardware.

Modified 07/2002

By Ralph Giles

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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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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 things 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

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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>.

Using the Software

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

Deprecated in:

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c-ares	1.15.0+gitrAUTOINC+e982924ace		MIT		
php	7.2.23	PHP-3.0			
zlib	1.2.8	Zlib			
pixman	0.34.0	MIT	MIT-style PD		
libxrender	0.9.9	MIT-style			
u-boot-gc	2012.04.01	GPLv2-or-later			
readline	5.2	GPLv2-or-later			
tcpdump	4.9.3	BSD-3-Clause			
glib-2.0	2.48.2	LGPLv2-or-later	BSD PD		
uci	git-5ad59a	GPL-2.0			
openssl	1.0.2o	openssl			
util-linux	2.28.1	GPLv2-or-later	LGPLv2.1-or-later	BSD	
harfbuzz	1.3.0	MIT			
php-mosquitto	1.0.0	BSD-3-Clause			
dropbear	2019.78	MIT	BSD-3-Clause	BSD-2-Clause	PD
sqldiff3	3.23.1	PD			
libpam	1.3.0	GPLv2-or-later	BSD		
mkfontscale	1.1.2	MIT-X			
libxcb	1.12	MIT			
libxml2	2.9.8	MIT			
linuxptp	2.0	GPLv2			
xorg-minimal-fonts	1.0	PD			
sudo	1.8.17p1	ISC	BSD	Zlib	

libxft 2.3.2 MIT
rpcd git-820621 ISC
iksemel1.5 LGPLv2.1
sqlite3 3.24.0 PD
pango 1.40.1 LGPLv2.0-or-later
libx11 1.6.3 MIT MIT-style BSD
libpng 1.6.24 Libpng
rehash 1.0 MIT
popt 1.16 MIT
base-files-openwrt git-229d60 GPLv2
tzdata 2017a PD BSD BSD-3-Clause
run-postinsts 1.0 MIT
boost 1.61.0 BSL-1.0 MIT Python-2.0
libgcc 6.2.0 GPL-3.0-with-GCC-exception
logrotate 3.9.1 GPLv2
libnl 3.2.28 LGPLv2.1
u-boot-fw-utils-gc 2012.04.01 GPLv2-or-later
bzip2 1.0.6 bzip2
perl 5.22.1 Artistic-1.0 GPL-1.0-or-later
font-util 1.3.1 BSD MIT
procd git-01f3dc LGPL-2.1
font-alias 1.0.3 MIT
base-passwd 3.5.29 GPLv2-or-later
sshpas 1.05 GPLv2
ncurses6.0+20160625 MIT
mkfontdir 1.0.7 MIT-X
linux-dspg-gc 4.9 GPLv2
rrdtool 1.6.0 GPLv2
bind 9.11.19 ISC BSD
cairo 1.14.6 MPL-1 LGPLv2.1
libxdmcp 1.1.2 MIT-style
busybox 1.24.1 GPLv2 bzip2

libcap	2.25	BSD	GPLv2
curl	7.60.0	MIT	
ca-certificates	20160104	GPL-2.0-or-later	MPL-2.0
libpcap	1.7.4	BSD	
mosquitto	1.5.4	EPL-1.0	EDL-1.0
update-rc.d	0.7	GPLv2-or-later	
fontconfig	2.12.1	MIT-style	MIT PD
libpcre	8.44	BSD-3-Clause	
json-c	0.12	MIT	
jsoncpp	1.1.0	MIT	
xmlstarlet	1.5.0	MIT	
libffi	3.2.1	MIT	
libxslt	1.1.29	MIT	
ubus	git-5f87f5	LGPLv2	
encodings	1.0.4	PD	
jsonfilter	git-c7e938	BSD	
libfontenc	1.1.3	MIT	
gawk	3.1.5	GPLv2	
netifd	git-f10765	GPL-2.0	
expat	2.2.0	MIT	
glibc	2.24	GPLv2	LGPLv2.1
syslog-ng	3.19.1	GPLv2	LGPLv2.1
freetype	2.6.5	FreeType	GPLv2-or-later
libxau	1.0.8	MIT-style	
gcc-runtime	6.2.0	GPL-3.0-with-GCC-exception	
sqlitecpp	1.3.1	MIT	
libtinyxml	2.5.3	Zlib	
libxext	1.3.3	MIT-style	
rsync	2.6.9	GPLv2-or-later	
opkg-utils	0.3.2+gitAUTOINC+3ffece9bf1	GPLv2-or-later	
ubox	git-e7a63f	LGPL-2.1	
odhcp6c	git-d2e247	GPL-2.0	

ethtool 4.6	GPLv2-or-later
bootastic-gc 1.0	GPLv2
net-snmp 5.7.3	BSD
lighttpd1.4.50	BSD
libubox git-6eff82	BSD

Python-2.0

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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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Version 3.1, 31 March 2009

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2006-Jan-27

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David Turner, Robert Wilhelm, and Werner Lemberg

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