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General

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Proprietary Software Component	Version	License
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pjsip	2.11.1	License for pjsip
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pjsip

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materials and software in object code format:

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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Mountain View, California 94043

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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

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.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 software is put in public domain, and can be used for any purpose with no warranty:

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

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

By Ralph Giles

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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).

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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 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

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

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alsa-lib	1.2.1.2	LGPLv2.1 GPLv2-or-later
alsa-ucm-conf	1.2.1.2	BSD-3-Clause
base-files-openwrt	git-229d60	GPLv2
base-passwd	3.5.29	GPLv2
bind	9.11.36	ISC BSD
boost	1.72.0	BSL-1.0 MIT Python-2.0
bootastic-gc	1.0	GPLv2
busybox	1.31.1	GPLv2 bzip2-1.0.4
c-ares	1.17.2	MIT
ca-certificates	20211016	GPL-2.0-or-later MPL-2.0
cairo	1.16.0	MPL-1.1 LGPLv2.1
cjson	1.7.13	MIT
curl	7.77.0	MIT
dropbear	2019.78	MIT BSD-3-Clause BSD-2-Clause PD
dspg-alsa-conf	1.0	LGPLv2.1
ethtool	5.4	GPLv2-or-later
expat	2.2.9	MIT
fontconfig	2.13.1	MIT-style MIT PD
freetype	2.10.1	FreeType GPLv2-or-later
fribidi	1.0.9	LGPLv2.1-or-later
gawk	3.1.5	GPLv2
glib-2.0	2.62.6	LGPLv2.1-or-later BSD-3-Clause PD

glibc 2.31+gitAUTOINC+3ef8be9b89 GPLv2 LGPLv2.1
harfbuzz 2.6.4 MIT
iksemel 1.5+gitAUTOINC+978b733462 LGPLv2.1
json-c 0.13.1 MIT
jsoncpp 1.9.2 MIT
jsonfilter git-c7e938 BSD
linux-dspg-gc 4.9 GPLv2
acl 2.2.53 LGPLv2.1-or-later
gcc-runtime 9.3.0 GPL-3.0-with-GCC-exception
attr 2.4.48 LGPLv2.1-or-later
bzip2 1.0.8 bzip2-1.0.6
libcap 2.32 BSD-3-Clause GPLv2
openssl 1.1.1n openssl
libffi 3.3 MIT
libgcc 9.3.0 GPL-3.0-with-GCC-exception
libnl 3.5.0 LGPLv2.1
libpam 1.3.1 GPLv2-or-later BSD
libpcap 1.10.1 BSD-3-Clause
libpcre 8.44 BSD-3-Clause
libpng 1.6.37 Libpng
sqlite3 3.24.0 PD
libssh2 1.9.0 BSD-3-Clause
libtinyxml2-2.5.3 2.5.3 Zlib
libubox git-6eff82 BSD
libxcrypt 4.4.15 LGPLv2.1
libxml2 v2.9.13 MIT
libxslt 1.1.34 MIT
lighttpd 1.4.55 BSD-3-Clause
linuxptp 3.1.1 GPLv2
logrotate 3.15.1 GPLv2
memleak-tools 1.0 LGPLv2.1
mosquitto 2.0.11 EPL-1.0 EDL-1.0

ncurses6.2	MIT	
net-snmp	5.8	BSD MIT
netifd	git-645cee	GPL-2.0
odhcp6c	git-d2e247	GPL-2.0
pango	1.44.7	LGPLv2.0-or-later
php	7.2.23	PHP-3.0
php-mosquitto	1.0.0	BSD-3-Clause
pixman	0.38.4	MIT MIT-style PD
popt	1.16	MIT
procd	git-75f237	LGPL-2.1
readline	5.2	GPLv2-or-later
rpcd	git-820621	ISC
rrdtool	1.7.2	GPLv2
rsync	2.6.9	GPLv2-or-later
run-postinsts	1.0	MIT
shared-mime-info	1.10	GPLv2
sqldiff3	3.23.1	PD
sqlitecpp	1.3.1	MIT
sshpas	1.05	GPLv2
sudo	1.8.32	ISC BSD Zlib
syslog-ng	3.24.1	GPLv2 LGPLv2.1
tcpdump	4.9.3	BSD-3-Clause
ttf-dejavu	2.37	BitstreamVera
tzdata	2021e	PD BSD-3-Clause
u-boot-fw-utils-gc	2015.01	GPLv2-or-later
u-boot-gc	2015.01	GPLv2-or-later
ubox	git-0e34af	LGPL-2.1
ubus	git-5f87f5	LGPLv2
uci	git-5ad59a	GPL-2.0
opkg-utils	0.4.2	GPLv2-or-later
update-rc.d	0.8	GPLv2-or-later
util-linux	2.35.1	GPLv2-or-later LGPLv2.1-or-later BSD-3-Clause BSD-4-Clause

xmlstarlet 1.6.1 MIT

zlib 1.2.11 Zlib

LGPLv2.1

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Version 2.1, February 1999

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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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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

openssl

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PHP-3.0

The PHP License, version 3.01

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one line to give the library's name and an idea of what it does.

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signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That`s all there is to it!

BitstreamVera

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Copyright FAQ

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1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package,

however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves.

See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the

entire family, not just a single font, and that you'll have to keep both GNOME and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., GNOME, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

Show details Hide details

Change log

r2011 by mark.nickel on Mar 3, 2011 Diff

Majority of Multi-Line text editing is in the commit. Also added some specific free fonts to replace the existing set as we

need some additional font metrics that we use in the Text Editing rendering pipeline.

You can see the font licenses in the editor/fonts folder under each font.

Still have some cleanup to do to add the text formatting (left,right,center) as

...

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svn:executable

*

LGPLv2

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Version 2, June 1991

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[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

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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, while the latter only works together with the library.

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

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