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1.7 spring-boot-starter-data-mongodb 2.2.0

1.7.1 Available under license:

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1.8 jackson-module-paranamer 2.10.0
1.8.1 Available under license:

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. This copy of Jackson JSON processor `jackson-module-paranamer` module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.9 spring-messaging 5.1.8

1.10 opensaml-profile-impl 3.3.0

1.11 vim 7.4.160-5.el7

1.11.1 Available under license:

*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar
SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see `kcc` below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `sponsor`. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see `manual-copyright`.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned
under c), you can distribute it without the source code for the
changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute
the changes to the Vim maintainer without fee or restriction, and
permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding modified Vim, or as long
as possible.

e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.

3) A message must be added, at least in the output of the "version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre KCC *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working
at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:et=help:norl:
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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1.12 x-crypto 1.14
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1.13 jackson-jaxrs-json-provider 2.9.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.16 spring-commons-logging-bridge

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1.18 busybox 1.29.3-r10

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Ty Coon, President of Vice
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# frozen_string_literal: true
require 'rubygems/text'

class Gem::Licenses
  extend Gem::Text

  NONSTANDARD = 'Nonstandard'.freeze

  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
  LICENSE_IDENTIFIERS = %w(
    0BSD
    AAL
    ADSL
    AFL-1.1
    AFL-1.2
    AFL-2.0
    AFL-2.1
    AFL-3.0
    AGPL-1.0
    AGPL-3.0
    AMDPLPA
    AML
    AMPAS
    ANTLR-PD
    APAFML
    APL-1.0
    APSL-1.0
    APSL-1.1
    APSL-1.2
    APSL-2.0
    Abstyles
    Adobe-2006
    Adobe-Glyph
    Afmparse
  )
Aladdin
Apache-1.0
Apache-1.1
Apache-2.0
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
Open Source Used In Cisco Auto Inline Retuner 2.0.1292

LGPL-2.1
LGPL-2.1+
LGPL-3.0
LGPL-3.0+
LGPLLR
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
LPPL-1.2
LPPL-1.3a
LPPL-1.3c
Latex2e
Leptonica
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
Libpng
MIT
MIT-CMU
MIT-advertising
MIT-enna
MIT-feh
MITNFA
MPL-1.0
MPL-1.1
MPL-2.0
MPL-2.0-no-copyleft-exception
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSL-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
ODbl-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
WXwindows
Watcom-1.0
Wsuipe
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
xinetd
xpp
zlib-acknowledgement
).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w(
  389-exception
  Autoconf-exception-2.0
  Autoconf-exception-3.0
  Bison-exception-2.2
  Bootloader-exception
  CLISP-exception-2.0
  Classpath-exception-2.0
  DigiRule-FOSS-exception
  FLTK-exception
  Fawkes-Runtime-exception
  Font-exception-2.0
  GCC-exception-2.0
  GCC-exception-3.1
LZMA-exception
Libtool-exception
Linux-syscall-note
Nokia-Qt-exception-1.1
OCCT-exception-1.0
Qwt-exception-1.0
WxWindows-exception-3.1
eCos-exception-2.0
freertos-exception-2.0
gnu-javamail-exception
i2p-gpl-java-exception
mif-exception
openvpn-openssl-exception
u-boot-exception-2.0
).freeze

REGEXP = %r{
  \A
  (\#{Regexp.union(LICENSE_IDENTIFIERS)}\+?
    (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?
    | #{NONSTANDARD}
  )
  \Z
}ox.freeze

def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end
end
test-unit is copyrighted free software by Kouhei Sutou
<kou@cozmixng.org>, Ryan Davis <ryand-ruby@zenspider.com>
and Nathaniel Talbott <nathaniel@talbott.ws>.

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1.30 ifupdown 0.7.53.1

1.30.1 Available under license:

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.48 jackson-databind 2.8.11.3

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### 1.49 micrometer-core 1.1.4

### 1.50 jq 1.5+dfsg 2

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1.51 pygobject 3.22.0 1.el7_4.1

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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.

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.)

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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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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 materials to be 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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1.55 dash 0.5.10.2 5

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- <a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
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Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at http://voxeolabs.com.

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Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

People

Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation

Michael Lee &lt;yfl@mira.net&gt; - initial RC6 implementation, MD2 implementation

Nuno Santos &lt;nsantos@student.dei.uc.pt&gt; - finding toString bug in certificate object.

Brett Sealey &lt;bretts@mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).

Victor A. Salaman &lt;salaman@teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.

Eran Librach &lt;eranl@valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

Jonathan Knudsen &lt;jonathan@LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie@thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe@cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek &lt;waclaw.sierek@tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7
support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu &lt;lyna.phu@init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&ouml;nnle &lt;sk13@inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see</li>
<li>Carmen Bastiaans &lt;cbastian@microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson &lt;tomasz@primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov &lt;euxx@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
<li>Megan Woods &lt;meganwoods@sekurafile.com&gt; - initial implementation of ECIES.</li>
<li>Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV’s to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M&amp;#252;hle &lt;michael@mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell &lt;me@MichaelMansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>
<li>Eike Recker &lt;eike.recker@gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>
<li>Chris Southern &lt;CSouthern@baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>
<li>Sidney Markowitz &lt;sidney@sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
<li>Chris Kerr &lt;ckerr@filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
<li>Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek &lt;m;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESeDe key generation.</li>
<li>Mike Bremford &lt;Mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan &lt;ss002@yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben &lt;ilsestef@skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>
<li>Klaudiusz Ciosk &lt;kciosk@max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.
Interoperability with Biztalk.

Don Hillsberry &lt;hillsber@dia2corp.com&gt; - S/Mime testing and debugging.

Kazuo Furuya &lt;kfuruya@infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny@lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS@geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@chapweske.com&gt; - ordering patch for Tiger message digest.

John Serock &lt;jserock@hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.

Andre Wehnert &lt;aw5@tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;lo_iacono@nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach@certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey@brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clau&szlig; &lt;sc2@inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio@metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes@eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier &lt;random@rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles@retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

J&ouml;rn von Kattch&eute; &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;m.artuso@64:libero.it&gt; - picking up the possible overread in ASN1InputStream.

Julian Morrison &lt;julian@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;es@64:esomail.de&gt; - fix to long conversion in clean room SecureRandom.

J&ouml;rn Schwarze &lt;JSchwarze@ulc.de&gt; - Locale fix for the clean room JCE.

Bryan Lovquist &lt;bkl@64:cps.com.au&gt; - Other provider compatibility fixes for CMS signing.

Artem Portnoy &lt;Artem_Portnoy@ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael H&auml;uaml:usler &lt;haeusler@64:ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.

Johan Seland &lt;johans@64:netfonds.no&gt; - general toString for BigInteger class.
Johannes Nicolai &lt;johannes.nicolai@novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva &lt;marc.doberva@4i4lex.si.com&gt; - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak &lt;jan.dvorak@mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jcohen@forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long &lt; aclong@ece.cmu.edu &gt; - adding public key decoding to PEMReader.

Hes Siemelink &lt;hes@064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu &lt;stefanpuiu@yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiseryang@064-yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@064pristx.com&gt; - patch toDSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@064cqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;s34gull@mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@064cared.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

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Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdx@dittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.
Jim Ford &lt;jim@muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime. getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hauser &lt;haeusler@pointon-consulting.de&gt; - extra aliases for provider.

Sai Pulabhotla &lt;psai@linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@digie web.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@agendenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem@email.cz&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps@linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jengelbach@webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashed Packets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug@tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1@umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.

Tom Cargill &lt;cargill@profcon.com&gt; - spelling patch in provider.

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Zanotti Mirko &lt;zanotti@cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;ns@babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skyttä &lt;ville.skytta@iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon@savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;miles.whiteley@144savis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;am@evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos@evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javi@codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;jonihahkala@cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, letAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

Rolf Schilling &lt;rolf@uber-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin@yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy@keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhioko Yamanaka &lt;ymnk@uber-wum.de&gt; - patch for improving use of Montgomery numbers in
Open Source Used In Cisco Auto Inline Retuner 2.0.1472

BigInteger library. Patch to use size of private exponent in DH parameters. - Nickolay Bolshakov &lt;tyrex@rekssoft.ru&gt;
- patch for class cast exception in AuthorityInformationAccess class. - Soren Hilmer &lt;soren.hilmer@064tietoenator.com&gt;
- patches for CertID with issuerSerial set in TSP implementation, additional compliance testing. - Steve Mitchell &lt;mitchell@064intertrust.com&gt;
- patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly. - Dirk Eisner &lt;D.Eisner@seeburger.de&gt;
- initial implementation of ISO 78164-4 padding. - Julien Pasquier &lt;julienpasquier@064free.fr&gt;
- initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class. - Matteo &lt;matartuso@064libero.it&gt;
- sequence patch to ASN1Dump. - Andrew Paterson &lt;andrew.paterson@064burnsecs.com&gt;
- patches to PGP tools, isRevoked method on PGPPrivateKey. - Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt;
- extensive provider exception handling compliance testing. - Florin Kollan &lt;adlocflo@064web.de&gt;
- fix to ElGamalKeyParameters equality testing. - Pavel Vassiliev &lt;paulvas@064gmail.com&gt;
- Initial GOST28147Mac implementation. - Tom Pesman &lt;tom@064tnux.net&gt;
- addition of DES-EDE encryption for RSAPrivate keys to PEMWriter. - Lukasz Kowalczyk &lt;lk@064gmail.com&gt;
- patch to fix parsing issue with OpenSSL PEM based certificate requests. - Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt;
- additional fix for partial reading with new style PGP packets. - Fix Bernd (KCDP 11) &lt;berndfix@credit-suisse.com&gt;
- fix for 31 byte issue and exception throwing by Whirlpool. - David M. Lee &lt;dmlee@064crossroads.com&gt;
- code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests. - Mike Dillon &lt;md5@embody.org&gt;
- additional checks for PGP secret and public key construction, patches to copyWithNewPassword. - tu-vi cung &lt;t2cung@hotmail.com&gt;
- patch for out of bounds problem in getDecoderStream method. - Chris Schultz &lt;cschultz@064gmail.com&gt;
- fix for InputStream constructor for X509V2AttributeCertificate. - David M. Lee &lt;dmlee@064crossroads.com&gt;
- implementation assistance with streaming CMS classes. - Joel Rees &lt;rees@064ddcom.co.jp&gt;
- fix to correct getOID methods from returning same set on X.509 attribute certificates. - Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt;
- micro fix for tsp Accuracy class. - Larry Bugbee &lt;bugbee@064mac.com&gt;
- initial ECNR implementation. - Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt;
- Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes. - Brian O'Rourke &lt;brianorourke@064gmail.com&gt;
- patch for signature creation time override in OpenPGP. - Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt;
- initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS
OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwntan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Chistinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;j@eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctrl&gt;.&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&#064brittanaysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&#0640644cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Marian Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&#064brittanaysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&#0640644cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Erik Tews &lt;e_tews&#0640644cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim&#064064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey&#064064allantgroup.com&gt; - initial implementation of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list&#064064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRT and Certificate sequence evaluation.

Julius Davies &lt;juliusdavies&#064064gmail.com&gt; - additional modes and algorithm support in PEMReader.

N&uuml;ria Mar&iacute; &lt;numaa&#0640644hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js&#064064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike&#064064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mtjohns&#064064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller&#064064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark&#064064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff&#064064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier&#064064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and esss libraries.

Peter Knopp &lt;pkkopp&#064064mng.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;gwozdziu&#064064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow&#064064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCCipher.

Tal Yacobi &lt;tal.yacobi&#064064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BIA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes.

Andrey Pavlenko &lt;andrey.a.pavlenko&#064064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn&#064064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz&#064064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini&#064064hotpop.com&gt; - identified a bug in ASN.1 library with handling of
unterminated NDEF's.

- Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BIA-93].

- Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].

- Michael Schoene &lt;michael@064sigrund-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

- Ion Larrañaga &lt;ilarra@06421sec.com&gt; fix to default partial packet generation in BCPGOutputStream.

- Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.

- Stefan Meyer &lt;steфан.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

- Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

- Rui Hodai &lt;ru@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

- Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

- Torbjorn Svensson &lt;tbobe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

- Paul FitzPatrick &lt;bourneycastle_pfitz@064fitzpatrick.cc&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

- Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

- Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

- Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

- Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

- Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal.

- Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.

- Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

- Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.

- Robin Lundgren &lt;737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

- Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

- Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

- Harendra Rawat &lt;hsrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.

- Rolf Lindemann &lt;lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

- Alex Artamonov &lt;alexart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.

- Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

- Chris Cole &lt;chris_h_cole@064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek &lt;tom@atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kil&aring;ring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

DARIO Novakovic &lt;daronis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP APL.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHP parameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Michaël Laiking &lt;michaël.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064ntngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10Certification functions.

Eleriseth &lt;Eleriseth#WPECGLtYbV i8Ri6Y7Vzl2Lv d2EUW99v3yNV3JWg8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@064yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel#primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalza20, ChaCha, reduced round Salsa20, Threelfish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSD/Crypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolas &lt;fatfredyy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPPrivateKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.

Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller#064sage.de&gt; additional standard algorithm name lookups in
JcaPEMKeyConverter.</li>

<li>Mathias Herberts &lt;Mathias.Herberts&#064;gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>

<li>Daniil Ivanov &lt;daniil.ivanov&#064;gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>

<li>Daniele Grasso &lt;daniele.grasso86&#064;gmail.com&gt; contributions to final Key calculation code for SRP6.</li>

<li>Andrey Utkin &lt;cindrhc&#064;gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>

<li>Arnis Tartu &lt;arnis&#064;ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>

<li>Mathias Herberts &lt;Mathias.Herberts&#064;gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>

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<li>Andrey Utkin &lt;cindrhc&#064;gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
SignedMailValidator.

- lartiguePierre@https://github.com/lartiguePierre: Fix for counter signature SID in CMSSignedData.
- Thomas Belot@https://github.com/thomas.belot+BC&@#064gmail.com: Initial CertPathLoopTest for demonstrating stack overflow issue.

- Rich DiCroce@https://github.com/richdirocco: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Bjouml;rn Kautler@https://github.com/vampire: Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Sch@uml;rmann@https://github.com/dscheruonn&: method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael@https://msknete@web.de: initial fix for bitStrength issue for OpenPGP EC keys.
- Tobias Wagner@https://tobias.wagner@n-design.de: Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro@https://github.com/sgiro: Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuette@https://github.com/bschuette: Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot@https://github.com/dallotTazTag: Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen@j.w.janssen@bouncycastle@#064lxtreme.nl: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding@sebastian.oe@rdor@robotron.de: Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer@kai.kramer@#064gmail.com: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles@benoit.charles@#064pentrust.com: Fix for IES data length check on decryption.
- Niko@nfink95@#064gmail.com: fix to cast issue in getOutputSize() for ECIES.
- akwizgran@https://github.com/akwizgran: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff@Matthias.Edelhoff@#064cryptovision.com: BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat@lukasz.deputat@#064gmail.com: Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig@https://github.com/justinludwig: Iterator fix for PGPObjecrtFactory to handle stream packets at start of iterated data.
- Androeacute; Berenguel@https://github.com/berenguel: Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaranowski@https://github.com/slavekjaranowski: Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev@https://github.com/andrey-vasilyev: Initial implementation of GOST R 34.11-2012.
- William Glanton@wglanton77@#064gmail.com: Fixed bug in Poly1305 [#BJA-620].
- jdvorak001@https://github.com/jdvorak001: Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele@jnaegele@#064grierforensics.com: Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre@https://github.com/andybons: NullPointer patch for WNafUtil.
- The Google Security Team (Project Wycheproof)@https://github.com/google/wycheproof: defect analysis and additional test cases for the provider.
Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storojis72&#064gmail.com&gt;; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storojis72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser&#064de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott&#064#064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patch for SM2 decrypt.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/Akretsch&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German
Paul Schaub: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar: update to OpenPGP package to handle a broader range of EC curves.

catbref: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion: detection of concurrency issue with pre-1.60 EC math library.

fgrieu: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier: initial version of Argon2 PBKDF algorithm.

Tony Washer: review of qTesla, Java 1.9 module code.

Vincent Bouckaert: initial version of RFC 4998 ASN.1 classes.

Tony Washer: ECIESKeyEncapsulation fix for use of OldCofactor mode.

Aurimas Liutikas: JavaDoc patches to ReasonsMask.

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1.70 libcap 2.22 9.el7

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1.71 jackson-databind 2.10.0

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AES in libhcrypto
rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in 
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.110 ncurses 6.1_p20190105 r0

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1.111 libseccomp 2.4.1 0ubuntu0.18.04.2

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Version 2, June 1991

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1.114 netty-codec 4.1.35

1.115 grails-base-profile 4.0.0.RC4
1.115.1 Available under license :

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1.116 gorilla v1.7.3

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1.118 gnupg 2.0.22 5.el7_5

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1.121 perl 5.26.1 6ubuntu0.3

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The End

```
#!perl
=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
```
if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = " ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\d\{4,\}/i
  or die "Copyright statement not found in perl -v output '$output'";
$year;
}

--------------------------------------------------------------------------

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

--------------------------------------------------------------------------
1.123 javassist 3.24.0

1.124 aspect-j 1.9.5

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1.125 opensaml-messaging-api 3.3.0

1.126 lucene-grouping 8.0.0
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1.131 spring-jcl 5.1.6
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 */

package org.apache.commons.logging;

/**
 * A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by [@link LogFactory], classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.
 * 
 * <p>The six logging levels used by <code>Log</code> are (in order):

---

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* <ol>
  * <li>trace (the least serious)</li>
  * <li>debug</li>
  * <li>info</li>
  * <li>warn</li>
  * <li>error</li>
  * <li>fatal (the most serious)</li>
* </ol>

* The mapping of these log levels to the concepts used by the underlying logging system is implementation dependent.
* The implementation should ensure, though, that this ordering behaves as expected.
*
* <p>Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information to be logged).
*
* <p>For example,
* <pre>
  * if (log.isDebugEnabled()) {
  *   ... do something expensive ...
  *   log.debug(theResult);
  * }
* </pre>
*
* <p>Configuration of the underlying logging system will generally be done external to the Logging APIs, through whatever mechanism is supported by that system.
*
* @author Juergen Hoeller (for the {@code spring-jcl} variant)
* @since 5.0
*/

public interface Log {

  /**
   * Is fatal logging currently enabled?
   * <p>Call this method to prevent having to perform expensive operations
   * (for example, String concatenation)
   * when the log level is more than fatal.
   * @return true if fatal is enabled in the underlying logger.
   */
  boolean isFatalEnabled();

  /**
   * Is error logging currently enabled?
   * <p>Call this method to prevent having to perform expensive operations
* (for example, `<code>String</code>` concatenation)
* when the log level is more than error.
* @return true if error is enabled in the underlying logger.
*/
boolean isErrorEnabled();

/**
 * Is warn logging currently enabled?
 * <p>Call this method to prevent having to perform expensive operations
 * (for example, `<code>String</code>` concatenation)
 * when the log level is more than warn.
 * @return true if warn is enabled in the underlying logger.
 */
boolean isWarnEnabled();

/**
 * Is info logging currently enabled?
 * <p>Call this method to prevent having to perform expensive operations
 * (for example, `<code>String</code>` concatenation)
 * when the log level is more than info.
 * @return true if info is enabled in the underlying logger.
 */
boolean isInfoEnabled();

/**
 * Is debug logging currently enabled?
 * <p>Call this method to prevent having to perform expensive operations
 * (for example, `<code>String</code>` concatenation)
 * when the log level is more than debug.
 * @return true if debug is enabled in the underlying logger.
 */
boolean isDebugEnabled();

/**
 * Is trace logging currently enabled?
 * <p>Call this method to prevent having to perform expensive operations
 * (for example, `<code>String</code>` concatenation)
 * when the log level is more than trace.
 * @return true if trace is enabled in the underlying logger.
 */
boolean isTraceEnabled();

/**
 * Logs a message with fatal log level.
 * @param message log this message
 */
void fatal(Object message);
/**
 * Logs an error with fatal log level.
 * @param message log this message
 * @param t log this cause
 */
void fatal(Object message, Throwable t);

/**
 * Logs a message with error log level.
 * @param message log this message
 */
void error(Object message);

/**
 * Logs an error with error log level.
 * @param message log this message
 * @param t log this cause
 */
void error(Object message, Throwable t);

/**
 * Logs a message with warn log level.
 * @param message log this message
 */
void warn(Object message);

/**
 * Logs an error with warn log level.
 * @param message log this message
 * @param t log this cause
 */
void warn(Object message, Throwable t);

/**
 * Logs a message with info log level.
 * @param message log this message
 */
void info(Object message);

/**
 * Logs an error with info log level.
 * @param message log this message
 * @param t log this cause
 */
void info(Object message, Throwable t);
* Logs a message with debug log level.
  * @param message log this message
  */
void debug(Object message);

/**
 * Logs an error with debug log level.
 * @param message log this message
 * @param t log this cause
 */
void debug(Object message, Throwable t);

/**
 * Logs a message with trace log level.
 * @param message log this message
 */
void trace(Object message);

/**
 * Logs an error with trace log level.
 * @param message log this message
 * @param t log this cause
 */
void trace(Object message, Throwable t);

}
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1.132 perl 5.28.1 6
1.132.1 Available under license :
   #!perl

   =head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
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free software which everyone can redistribute and change under these
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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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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:

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This is free software, and you are welcome to redistribute it
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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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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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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:

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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4

* created on: 2005jan16
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<?xml version="1.0"?>
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0
<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement {@link Replaceable} in their text representation class.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
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   */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }
    public final String getName() { return null; }
    public void checkGuard(Object obj) throws SecurityException { }
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }
    public abstract String getActions();
    public abstract boolean implies(Permission permission);
}

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This code is derived from section 17.1 of Applied Cryptography,
second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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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.

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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# 1.163 lsb 4.1+Debian13+nmu1

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1.166 jruby 9.2.7.0

1.167 spring-messaging 5.1.6
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     */

package org.springframework.messaging;

/**
 * A generic message representation with headers and body.
 *
 * @author Mark Fisher
 * @author Arjen Poutsma
 * @since 4.0
 * @param <T> the payload type
 * @see org.springframework.messaging.support.MessageBuilder
 */
public interface Message<T> {

    /**
     * Return the message payload.
     */
    T getPayload();
/**
 * Return message headers for the message (never { @code null } but may be empty).
 */
MessageHeaders getHeaders();

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1.169 libtls-standalone 2.7.4-r6

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1.170 log4j-slf4j-impl 2.11.1

1.171 jackson-databind 1.9.11

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1.172 nmap 6.40 16.el7

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- Various X.org libraries. These were built using MacPorts.
  
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Written by: Philip Hazel
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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 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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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 a storage or distribution medium does not bring the other work under the scope of this License.
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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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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.

@item
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.

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.)

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.

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:

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.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
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@subheading END OF TERMS AND CONDITIONS

@page
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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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.

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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.

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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
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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.)

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.

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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) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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To do so, attach the following notices to the program. It is safest to attach them at the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
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program 'Gnomovision' (a program to direct compilers to 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!

1.177 spring-cloud-netflix-zuul 2.2.2
1.177.1 Available under license:

Apache License
Version 2.0, January 2004
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1.178 jackson-dataformat-cbor 2.9.8

1.179 pkg-config 0.27.1 4.el7

1.179.1 Available under license:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(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
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1.183 jline-style 3.10.0

1.184 spring-transaction 5.1.8.RELEASE

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1.185 apache-common-codec 1.14

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1.188 jakarta-annotation-api 1.3.5

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7.2.0

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file_io/unix/mktemp.c, strings/apr_strings.c:

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 *
From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.194 opensaml-xmlsec-impl 3.3.0

1.195 ubuntu-keyring 2018.09.18.1~18.04.0

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1.196 jetty-security 9.4.18.v20190429

1.197 apk-tools 2.10.5-r0

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1.203 spring-commons-logging-bridge

5.1.6.RELEASE

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1.216 libregexp-common-perl 2013031301-1

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1.217 slf4j-api-module 1.7.26

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1.220 netty-reactive-streams-implementation

2.0.3

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```
1.221 jaxb-runtime 2.3.0

1.222 jackson-module-parameter-names 2.10.3

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1.223 coreutils 8.23-4

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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
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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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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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1.237 tzdata 2020a-0+deb10u1

1.237.1 Available under license:
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1.238 netty-transport 4.1.35

1.239 spring-boot-autoconfigure 2.2.0

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.248 neko-html 1.9.21

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## ASM Bytecode Manipulation Framework v6.0

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#include/GL/glxext.h
#include/GL/wglxext.h

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1.259 spring-transaction 5.2.0.RELEASE
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1.268 maxmind-db 1.2.2

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1.269 cryptsetup 1.6.6-5

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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
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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.

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If distribution of object code is made by offering access to copy
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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.

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.

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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
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 materials to be 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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Preamble

14

15
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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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Once this change is made in a given copy, it is irreversible for
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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
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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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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
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You must give prominent notice with each copy of the work that the

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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:
a) Accompany the work with the complete corresponding

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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) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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interface-compatible with the version that the work was made with.

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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

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*******************************************************************

1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of
output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section
  below for more information on running different test groups. The default test groups run are the "unit" and
  "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from
docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you
might see an
exception like this:
java.lang.NullPointerException
  at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
  at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
  at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
  at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue,
simply switch
to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition
  which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download
  (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your
  WebDAV
  username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you
  have
  a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...
  
  <servers>
    ...
    
    <server>
      <id>jboss-developer</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-snapshots</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-releases</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    ...
  
  </servers>
  ...

</settings>
```

1.3. Deploying a release to a live repository

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.
2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------
* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------
The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test
----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org.jboss.cache.multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org.jboss.cache.multiplexer/* test

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.
To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.
2.8. Running permutations manually or in an IDE

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

---

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015

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17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)

17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)

17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)

17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


17.7. Changes in Version 6.01 (1. Apr 2004)


<h2 id="installation">1. Installation</h2>

<h3 id="using-the-driver-in-a-java-application">1.1 Using the Driver in a Java Application</h3>

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

<h3 id="using-the-driver-in-an-applet">1.2 Using the Driver in an Applet</h3>
Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
<pre class="code html4strict">
&lt;APPLET CODE=...&quot; Codebase=...&quot; ARCHIVE=...&quot; WIDTH=...&quot; HEIGHT=...&quot; ARCHIVE=Merlia.jar...&quot; WID...&quot;100%&quot; HEIGHT=...&quot;100%&quot;&gt;
...&lt;/APPLET&gt;
</pre>

or extract the jar in the directory of the applet.

</div>

</div>

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<h3 id="sql-server-java-and-jdbc-versions">SQL Server, Java and JDBC Versions</h3>

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
<tr>
<td>SPRINTA</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>OPTA</td>
<td>1.2</td>
<td>2.0 + Optional Package</td>
</tr>
<tr>
<td>MERLIA</td>
<td>1.4</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>4.0 (with Java 6.0)</td>
<td></td>
</tr>
</tbody>
</table>
All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5

with all Service Packs (32 bit / 64 bit)

### 2.2 Implemented Features

<table>
<thead>
<tr>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API 1.22 2.0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>ResultSet Holdability</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

A more complete list can be found at: [http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features](http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features)
2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```bash
telnet <span class="sy0">hostname</span> or <span class="sy0">ip</span> address <span class="sy0">port number</span>
```
If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you'll need to use an SQL Server login, in which case you'll need to enable "SQL Server authentication" or "Mixed authentication". To verify the authentication type:

- Select the SQL Server in the Enterprise Manager
- Open the properties dialog
- Select the security tab

If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.
The class name of the driver is: **com.inet.tds.TdsDriver**

The name of the pooled driver is: **com.inet.pool.PoolDriver**

The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

<table>
<thead>
<tr>
<th>DataSource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.TdsDataSource</td>
<td>This is a simple DataSource. Also named JDBC 1 DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>

For a list of DataSource Properties look in the [API documentation](#).

2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>Subprotocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:</td>
<td>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&amp;sql7=true)</td>
</tr>
<tr>
<td>jdbc:inetdae7a:</td>
<td>support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0</td>
</tr>
</tbody>
</table>
<h3 id="jdbc-url-syntax-of-the-driver">2.7 JDBC URL Syntax of the driver</h3>

<table>
<thead>
<tr>
<th>JDBC URL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae6:hostname:portnumber</td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae:hostname</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english</td>
<td>with properties</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname/instancename</td>
<td>with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
<tr>
<td>jdbc:inetdae7:&lt;em&gt;servername/pipe/pipename</td>
<td>with named pipes</td>
</tr>
<tr>
<td></td>
<td>jdbc:inetdae7:&lt;em&gt;servername/pipe/MSSQL$instancename/sql/query</td>
</tr>
</tbody>
</table>

<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>

The pooled driver is only part of OPTA and MERLIA.
jdbc:inetpool:jdbc:inetdae7:www.inetsoftware.de:1433
jdbc:inetpool:inetdae7:localHost:1433
jdbc:inetdae7:210.1.164.19:1433
jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433
jdbc:inetpool:inetdae7:MyServer/pipe/sql/query
jdbc:inetpool:jdbc:inetdae7:www.inetsoftware.de:1433
jdbc:inetpool:jdbc:inetdae7:localHost:1433

2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>database</th>
<th>default is the user default database</th>
</tr>
</thead>
<tbody>
<tr>
<td>language</td>
<td>default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current...</td>
</tr>
<tr>
<td>Column</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>windows user is used</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>logging</td>
<td>default is &quot;false&quot; If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td>sql7</td>
<td>default is &quot;false&quot; with &quot;inetdae&quot;&quot;true&quot; the new datatypes are supported; this property works only with the classic subprotocol &quot;inetdae&quot;</td>
</tr>
<tr>
<td>secureLevel</td>
<td>default is 1; set the level of security with SSL &quot;true&quot; security with SSL</td>
</tr>
<tr>
<td>prepare</td>
<td>default is &quot;true&quot;</td>
</tr>
</tbody>
</table>
PreparedStatements are prepared on the SQL Server,

the driver sends for every call of execute() all data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>prepareLiveTime</td>
<td>Set the time in seconds that an unused PreparedStatement handle is live before it is unprepared. A value of 0 means an unlimited live time.</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>If the value is &quot;true&quot; then the method executeUpdate() should return the last update count. This property is helpful if you use PreparedStatements on tables with triggers. In this case the first update count is the count of the trigger. With this property you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property makes problems with expression that return multiple update counts. In this case you receive also only the last update count.</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().</td>
</tr>
<tr>
<td>appname</td>
<td>Application name (only Application and Enterprise licenses)</td>
</tr>
<tr>
<td>WSID</td>
<td>Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().</td>
</tr>
</tbody>
</table>

&quote;false&quot; the method executeQuery always uses server cursors.
resultSetType        default is &quot;1003&quot; (ResultSet.TYPE_FORWARD_ONLY) <br/>
A list of valid values can be found in chapter &lt;a href="#scrolling-cursor-types" title="Scrolling Cursor Types" class="wikilink1"&gt;Scrolling Cursor Types&lt;/a&gt;.

useInsteadOfTrigger  default is &quot;false&quot; &quot;true&quot; - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.

impltran             with Driver the default is &quot;true&quot; for compatibility with the JDBC-ODBC bridge. with DataSource the default is &quot;false&quot; to reduce deadlock problems.

If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.

fulltran             default is &quot;true&quot;, creates always a transaction with setAutoCommit( false ); &quot;false&quot; only if needed. With the option fulltran=true the method setAutoCommit() uses &quot;BEGIN TRAN&quot; and &quot;COMMIT TRAN&quot;.. If the flag auto commit is set then there will always be a running transaction. With fulltran=false the method setAutoCommit() uses &quot;SET IMPLICIT_TRANSACTIONS ON&quot; and &quot;SET IMPLICIT_TRANSACTIONS OFF&quot;. If the flag auto commit is set then the transactions will only start if needed. More information on these SQL expressions and their behaviour can be found in the MSSQL Server Online Manual.

dstsave              default is true
Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.

statusRequest        Set the mode with which the &lt;abbr title="Application Programming Interface"&gt;API&lt;/abbr&gt; requests the status of a connection. There are 2 possible modes:
* safe (default) - an additional round trip to the database is executed.
* fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()

fastbatch            default is true
Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single
count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.

-i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().

host override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property "instance".

port override the value in the JDBC URL

failover see chapter "Failover on getConnection()"

mars Enables ("true") or disables ("false") the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.

packetSize Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.

Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details.

Which data type constant should be used from the driver. Available options are jdbc3, jdbc4 and odbc. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.
There are three ways to put the properties to the driver:

- Append the properties to the URL like `jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch`.
- Call method `getConnection(String url, Properties info)` from the driver manager.
- Create a `DataSource` and set the properties with the set methods.

---

**2.10 Connections to the MSDE 2000 Release A**

You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

**Comments of the switches:**

- `SAPWD="password"`: Set the password for the sa account. This is required for Windows Server 2003.
- `SECURITYMODE=SQL`: Set the authentication to "Mixed Mode". This is required to connect via TCP/IP with a non-Windows program like Java.
- `DISABLENETWORKPROTOCOLS=0`: Enable the TCP/IP protocol.

---

**2.11 Connection Examples**

---
Eight examples are included in the download file.

An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)

This example shows the use of the PoolDriver. A driver with internal connection pooling.

How to create a connection with a datasource.

How to use the PooledConnection of the driver.

This demonstrates the use of the PoolManager i-net PLEXA®; i-net PLEXA®; is an example of a pool
Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from
Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is &quot;/sql/query&quot;, but you can change this pipe name in the server network manager.

The driver implements all escape clauses as follows:

### 4.1 Date and Time

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'&quot; }
```

### 4.2 Stored Procedures

```java
{call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?]...)}
{? = call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?]...)}
```

examples:

```java
st <span class="sy0">=</span> con.<span class="me1">createStatement</span><span class="br0"><blass>&amp;#40;</blass><span class="br0"><blass>;
 st.<span class="me1">execute</span><span class="br0"><blass>&amp;#40;</blass><span class="br0"><blass>;
 pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span class="br0"><blass>&amp;#40;</blass><span class="br0"><blass>;
 pr.<span class="me1">execute</span><span class="br0"><blass>&amp;#40;</blass><span class="br0"><blass>;
 pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span class="br0"><blass>&amp;#40;</blass><span class="br0"><blass>;
```


<div class="level3">
<p>Numeric Functions</p>
<pre class="code">{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}</pre>
</div>

Time and Date Functions
<pre class="code">{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
interval may be one of the following:

<pre class="code">SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR</pre>

<h3 id="outer-join">4.4 Outer Join</h3>

<pre class="code">
{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>

<h3 id="encrypt">4.5 Encrypt</h3>

<pre class="code">
{encrypt N'password'}</pre>

<h2 id="character-converting">5. Character Converting</h2>

<p>By default character converting is disabled. To use character converting in the driver you need to append 
&quot;charset=YourCharSet&quot; to the url.</p>
for example: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; +
sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.

You can test the availability of a character set with:
&quot;test string&quot;.getBytes(charset);
If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N.

Example: &quot;INSERT INTO myTable(ntext field) VALUES( N#039:national text#039; )&quot;
If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

-8 - NCHAR

-9 - NVARCHAR

-10 - NTEXT

-11 - UNIQUEIDENTIFIER

-150 - SQL_VARIANT

SQL Server 2005 supports the following new data types:

-XML

and the enhanced data types:

-Varchar(max)

-NVarchar(max)
Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005(Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

The other new data types:
are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the data type precedence rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:
<li class="level1"><div class="li"> tinyint</div></li>
<li class="level1"><div class="li"> bit</div></li>
<li class="level1"><div class="li"> ntext</div></li>
<li class="level1"><div class="li"> text</div></li>
<li class="level1"><div class="li"> image</div></li>
<li class="level1"><div class="li"> timestamp</div></li>
<li class="level1"><div class="li"> uniqueidentifier</div></li>
<li class="level1"><div class="li"> nvarchar</div></li>
<li class="level1"><div class="li"> nchar</div></li>
<li class="level1"><div class="li"> varchar</div></li>
<li class="level1"><div class="li"> char</div></li>
<li class="level1"><div class="li"> varbinary</div></li>
<li class="level1"><div class="li"> binary (lowest)</div></li>

<h3 id="data-type-mapping">7.2 Data Type Mapping</h3>

If you use the set methods of a PreparedStatement then you will have the following mapping:

If you use the set methods of a PreparedStatement then you will have the following mapping:

<table class="inline">
<tr class="row0">
<td class="col0"> Method </td>
<td class="col1"> MS SQL Data Type with protocol inetdae7 </td>
<td class="col2"> MS SQL Data Type with protocol inetdae7a </td>
</tr>
<tr class="row1">
<td class="col0"> setBoolean </td>
<td class="col1"> BIT </td>
<td class="col2"> .. </td>
</tr>
<tr class="row2">
<td class="col0"> setByte </td>
<td class="col1"> TINYINT </td>
<td class="col2"> .. </td>
</tr>
</table>
<table>
<thead>
<tr>
<th>Method</th>
<th>Type</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>setShort</code></td>
<td><code>SMALLINT</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setInt</code></td>
<td><code>INT</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setLong</code></td>
<td><code>BIGINT</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setFloat</code></td>
<td><code>REAL</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setDouble</code></td>
<td><code>FLOAT</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setBigDecimal</code></td>
<td><code>DECIMAL</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setString</code></td>
<td><code>VARCHAR</code></td>
<td><code>TEXT</code></td>
</tr>
<tr>
<td><code>setAsciiStream</code></td>
<td><code>VARCHAR</code></td>
<td><code>TEXT</code></td>
</tr>
<tr>
<td><code>setClob</code></td>
<td><code>NVARCHAR</code></td>
<td><code>NTEXT</code></td>
</tr>
<tr>
<td><code>setCharacterStream</code></td>
<td><code>NVARCHAR</code></td>
<td><code>NTEXT</code></td>
</tr>
<tr>
<td><code>setDate</code></td>
<td><code>DATETIME</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setTime</code></td>
<td><code>DATETIME</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setTimestamp</code></td>
<td><code>DATETIME</code></td>
<td>...</td>
</tr>
<tr>
<td><code>setBytes</code></td>
<td><code>VARBINARY</code></td>
<td><code>IMAGE</code></td>
</tr>
</tbody>
</table>
If you use a set method that map to a data type with a higher precedence then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server can't use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

Solutions:
1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:
   ... cast(?) as TINYINT

3.) Change the data type of the table.

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don't match exactly the column type. For example Driver sends parameter as
the column type is "decimal(38,36)". It seems that the index for the numeric column won't be used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g.

```sql
SELECT * FROM testnumeric WHERE a = CAST(? AS numeric(7,0))
```

---

### 8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
<th>remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward</td>
<td>A forward only cursor with activated optimization.</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only</td>
<td>The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor</td>
<td>Use a concurrency of CONCUR_READ_ONLY. SQL Server will generate a temporary table, so changes made to the rows by others will not be visible through the cursor. The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor</td>
<td>The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE+1</td>
<td>Dynamic cursor</td>
<td>The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods returns always false.</td>
</tr>
</tbody>
</table>

---

### 9. Locking and Concurrency Control

Concurrency type is one of the following concurrency control options.
<table>
<thead>
<tr>
<th>concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCUR_READ_ONLY</td>
<td>Read-only cursor. You cannot modify rows in the cursor result set.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE</td>
<td>Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+1</td>
<td>Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+2</td>
<td>Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.</td>
</tr>
</tbody>
</table>

10. Failover

10.1 Failover on getConnection()

If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with failover overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

- jdbc:inedae7:YourHost?database=northwind&failover=true&failoverhost=YourHost2
- jdbc:inedae7:YourHost?failover=true&failoverport=1500
To set more than one failover possibility, use the following syntax:

```
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

`host[N]` and `port[N]` must form pairs, otherwise they will be ignored.

With the interface `FailoverRunnable` you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods `setFailoverTimeout()` and `setFailoverCount()`. For more information please refer to the <abbr title="Application Programming Interface">API</abbr> documentation of the PoolManager.

With the interface `FailoverListener` it is possible to manage the reconnection process. The `FailoverListener` receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from `FailoverListener`, a new try of reconnect will be started or not. The Connection tryes to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.

There are multiple possibilities about how to configure the Monitored Failover.

It is possible to use the default implementation of the `FailoverListener` or to use your own implementation.

The default `FailoverListener` is similar to the `TimedFailoverListener` in the samples package.

To every created Connection automatically an instance of the configured `FailoverListener` will be added.

Set a `FailoverListener` via Connection properties:
<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
<tr>
<td>failoverListener</td>
<td>-</td>
<td>the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection.</td>
</tr>
</tbody>
</table>

**example URLs:**

```
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10
```

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

```
<ul>
  <li>com.inet.pool.PoolDriver</li>
  <li>com.inet.ora.PDataSource</li>
  <li>com.inet.tds.PDataSource</li>
</ul>
```
The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. 

Example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailover.CounteredFailoverListener(99);
(TAFConnection con).addFailoverListener(fl);

//remove a FailoverListener
(TAFConnection con).removeFailoverListener(fl);

//remove all FailoverListener
(TAFConnection con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener[] fls =...
The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

1. Modify the database
   
   You can modify the database with the following SQL statement:
   
   ```sql
   ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON
   ```

2. initSQL
   
   If you do not change the level at using of connection then you can set it at creation of the connection with:
   
   ```sql
   initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
   ```

3. Executing a statement
   
   You can also change it with the following Java line:
   
   ```java
   conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");
   ```

4. setTransactionIsolation
   
   Since version 6.08.04 you can also set it via API with:
   
   ```java
   conn.setTransactionIsolation(4096);
   ```

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modify the database</td>
<td></td>
<td></td>
</tr>
<tr>
<td>initSQL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Executing a statement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>setTransactionIsolation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
<tr class="row1">
<td class="col0"> DriverManager.setLogStream(PrintStream) </td><td class="col1"> DriverManager.setLogStream( System.out ); DriverManager.setLogStream( new FileOutputStream("c:\\;\driver.log") ); </td><td class="col2"> This method is deprecated but it work with all JDBC drivers. </td>
</tr>
<tr class="row2">
<td class="col0"> DriverManager.setLogStream( new PrintWriter( System.out ) ); </td><td class="col1"> DriverManager.setLogStream( System.out ); </td><td class="col2"> work not with JDBC 1.22 driver like i-net UNA </td>
</tr>
<tr class="row3">
<td class="col0"> DriverManager.setLogStream( new PrintWriter( System.out ) ); </td><td class="col1"> DriverManager.setLogStream( new PrintWriter( System.out ) ); </td><td class="col2"> This method is deprecated but it work with all JDBC drivers. </td>
</tr>
<tr class="row4">
<td class="col0"> DriverManager.setLogStream( new PrintWriter( System.out ) ); </td><td class="col1"> DriverManager.setLogStream( new PrintWriter( System.out ) ); </td><td class="col2"> work not with JDBC 1.22 driver like i-net UNA </td>
</tr>

</div>

<h2 id="support">13. Support</h2>
<p>Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.</p>
<p>The latest support information are available at: http://www.inetsoftware.de/support</p>
Support is available per email (replace at with @):

Licensing, Pricing, Updates, ...

sales at inetsoftware.de

una at inetsoftware.de

sprinta at inetsoftware.de

opta at inetsoftware.de

merlia at inetsoftware.de

opta at inetsoftware.de

merlia at inetsoftware.de

You can find more documentation at:

http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int

possible workarounds are:
<ul>
<li class="level2"><div class="li"> set integer values instead of Strings</div>
</li>
<li class="level2"><div class="li"> use JDBC URL "jdbc:inetdae7a" - take care about no unicode support</div>
</li>
<li class="level2"><div class="li"> set JDBC parameter "tds9=false" - results in unsupport of new sql server 2005 data types</div>
</li>
</ul>

<li class="level1"><div class="li"> When using named pipes, setting timeout has no effect.</div>
</li>
<li class="level1"><div class="li"> When using named pipes, cancel() has no effect.</div>
</li>
<li class="level1"><div class="li"> The method getTableName() requires a cursor or the "for browse" statement.</div>
</li>
<li class="level1"><div class="li"> Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc       "; you receive the value "abc").</div>
</li>
<li class="level1"><div class="li"> The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.</div>
</li>
<li class="level1"><div class="li"> The following methods are not supported by this release:</div>
<ul>
<li class="level2"><div class="li"> PrepareStatement.setArray (int i, Array x)</div>
</li>
<li class="level2"><div class="li"> PrepareStatement.setRef (int i, Ref x)</div>
</li>
<li class="level2"><div class="li"> PrepareStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x"</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getObject (int i, java.util.Map map)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getRef (int i)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getArray (int i)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getURL ="int-i"</div>
</li>
<li class="level2"><div class="li"> All method with a named parameter.</div>
</li>
<li class="level2"><div class="li"> DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)</div>
</li>
<li class="level2"><div class="li"> DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String
If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.

> **Note:** You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

> **WARNING**: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

The JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.
SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

- Run the Internet Services Manager that is located in the Administrative Tools folder.
- Right-click on the Default Web Site node for the server and select Properties; from the context menu.
- Click on the Directory Security tab.
- Click on the Server Certificate button. A wizard should appear.
- Click the Next button.
- The Create a new certificate radio button should be selected. Click the Next button.
- The Prepare request now, but send it later radio button should be selected. Click the Next button.
- Click the Next button.
- Enter your organization name and unit and click the Next button.
- In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the Next button.
- Enter your State and City. Click the Next button.
- Accept the default file name of c:\certreq.txt and click the Next button.
Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your certificate or you can use your own certificate server.

16.2. Create a Certificate with the Certificate Server

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL http://YourCertificateServer/certsrv.

Select "Request a Certificate" and click "Next".

Select "Advanced Request" and click "Next".

Select the PKCS#10 option and click "Next".

Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.

It will tell you the request is pending. Click on the home hyperlink at the top.

Run the Certificate Authority application that is located under Administrative Tools.

Click on Pending Requests. You'll see the request that you just made in there.

Right-click on the request and select All Tasks/Issue.
Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the "Check on pending certificate" option and click the "Next" button.

You should see the "Saved-Request Certificate" in there now. Click the "Next" button.

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Right-click on c:\certnew.cer in Explorer and select Install from the context menu.

Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

Start the MMC.EXE and add the Certificates snap-in for the "computer account".

Select the Certificate in the "Personal" or "Own Certificate" Folder.

Drop the Certificate.
16.5. Forcing Protocol Encryption

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

16.6 The Driver Option secureLevel

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1 (default)</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>

17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)
<ul>
<li class="level1">For XA support the extended procedures was replaced with a NT-Service.</li>
</ul>

<ul>
<li class="level1">The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.</li>
</ul>

<h3 id="changes-in-version-501-merlia-201-5-feb-2003">17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)</h3>

<ul>
<li class="level1">The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.</li>
<li class="level1">ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).</li>
<li class="level1">A bug with wasNull() and getXXX( x, Calendar) was fixed.</li>
<li class="level1">A bug with isFirst() in CachedRowSet was fixed.</li>
<li class="level1">A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.</li>
<li class="level1">A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.</li>
<li class="level1">A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.</li>
<li class="level1">The error &quot;Disallowed implicit conversion ...&quot; with CachedRowSet and null values was fixed.</li>
<li class="level1">Property initSQL was added.</li>
<li class="level1">A loop for name resolution of the instance name was added.</li>
<li class="level1">A reconnect for the DTCPProxy was added if a network error occur.</li>
<li class="level1">In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.</li>
</ul>
17.3 Changes in Version 5.02 (MERLIA 2.02)  (8. May 2003)

A bug with CachedRowSet and setXXX was fixed. It works without clearParmeters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Connection) was added.

Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.

Connections with a read timeout are removed from the connection pool.

17.4 Changes in Version 5.03 (MERLIA 2.03)  (4. Nov 2004)

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.
A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5'; are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.

The AsciiStream always sends Ascii data (also in unicode mode).

The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject( x, value, Types.BIT ) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.

The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.

The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.
17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)

- The truncate of SP output parameter without input value on length 255 was fixed.


- Support for SSL was added.

17.7. Changes in Version 6.01 (1. Apr 2004)

- A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.
- A NullPointerException with DataSources was fixed. The bug exists since 6.00.
- The methods setSecureLevel() and getSecureLevel() were added.
- The regression that connect to MS SQL Server 6.5 fails was fixed.
- The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.
- A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.
- The ClassNotFoundExption withh SSL on the console with JDK 1.3 was removed.
- The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.
- Fixes in isAfterLast and isBeforeFirst for empty Resultsets
A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since 5.03.01.

A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.

Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.

A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.

The wrong message "Statement.cancel: Statement is currently not running" on running Statements was removed.

The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.

The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (File Transfer Protocol), 80 (HTTP) or 1521 (Oracle).

The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.

Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.

The methods setAppname() and getAppname() were added to the DataSources.

The methods setFulltran() and getFulltran() were added to the DataSources.

Support for the new protocol of SQLServer 2005 was added.

Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

Support for writeout the new datatypes XML, Varchar(max), NVarchar(max)
and Varbinary(max) was added.
</li>
<li class="level1"><div class="li"> The property lastUpdateCount was added.</div>
</li>
<li class="level1"><div class="li"> The sql state &quot;100029&quot; was changed to &quot;07001&quot;. It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.</div>
</li>
<li class="level1"><div class="li"> A bug with Statement.cancel() and SSL and forceEncryption was fixed.</div>
</li>
</ul>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.</div>
</li>
<li class="level1"><div class="li"> The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.</div>
</li>
<li class="level1"><div class="li"> Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</div>
</li>
<li class="level1"><div class="li"> The timing for resolving the instance name was changed.</div>
</li>
<li class="level1"><div class="li"> The property WSID was added.</div>
</li>
<li class="level1"><div class="li"> The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.</div>
</li>
<li class="level1"><div class="li"> Support for the data type BIGINT in the method updateObject(i,x) was added.</div>
</li>
<li class="level1"><div class="li"> The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.</div>
</li>
<li class="level1"><div class="li"> If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.</div>
</li>
<li class="level1"><div class="li"> An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.</div>
</li>
}

- Connection failover was expanded to set more than one failoverhost.
- Added setLogging(String) and setProperty(String) to class TdsDataSource.
- The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.


- Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.
- The bug in DataSource overwriting the original host/port information in failover case has been fixed.
- The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.
- A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.
- CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).
- Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.
- Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message "Invalid object name" had been issued by mistake.
- The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.
- Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor...
received data had been erroneously evaluated before the fix.

- Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

- Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

- Method PoolManager.dispose() was added.

- The exception "Unknown TDS packet type: 18" will not be thrown anymore.

- Performance increasing: executing a prepared statement runs faster at the first execute call.

- &quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.

- The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int).

- Log output extended with information about Connection ID.

- Performance improvement in ResultSet class.

- A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

- Reading out type money and type smallmoney from sql_variant column was fixed.


- New driver property "dstsave"

- Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

- Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

- Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.

- Reading values from MONEY columns with getDouble() has been fixed to
<li>Since version 6.05 CachedRowSet.populate(ResultSet) didn’t worked. This is fixed now.</li>
<li>There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.</li>
<li>An exorcescent stacktrace log output was removed. (SocketException)</li>
<li>TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.</li>
<li>Since version 6.05: If a statement was already prepared, executing it as batch failed.</li>
<li>Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.</li>
<li>PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStream values in addition.</li>
<li>since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.</li>
<li>since 6.04.12, prepare end execute statements didn’t worked with SQL Server 7.</li>
<li>Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction.</li>
<li>Adapted meta data requests to changes made in final SQL Server 2005.</li>
<li>In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.</li>
Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL)

The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An &quot;unknown type&quot; Exception was thrown before.


Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error &quot;column type XX is unknown&quot;.

An &quot;ArrayIndexOutOfBoundsException: 2&quot; with PreparedStatement.executeUpdate() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.executeUpdate() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed. 

...
If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.
In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200 MB to 100 MB.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there
are no decimal points. This is a regression since 6.07.</li>
</div>
<li class="level1"><div class="li"> The property typeMapping was added.</div>
</li>
<li class="level1"><div class="li"> JDBC4 interface was added for i-net MERLIA.</div>
</li>
</ul>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.</div>
</li>
<li class="level1"><div class="li"> A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.</div>
</li>
<li class="level1"><div class="li"> A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.</div>
</li>
<li class="level1"><div class="li"> The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.</div>
</li>
<li class="level1"><div class="li"> A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.</div>
</li>
<li class="level1"><div class="li"> Some protocol violations with the data type XML were fixed.</div>
</li>
<li class="level1"><div class="li"> The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000
[xyz2005]Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;</div>
</li>
<li class="level1"><div class="li"> A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.</div>
</li>
<li class="level1"><div class="li"> Integrated Windows Authentication for TCP/IP connections was added.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.</div>
</li>
<li class="level1"><div class="li"> The methods getFunctions and getFunctionColumns are now implemented.</div>
</li>
<li class="level1"><div class="li"> The typed SQLExceptions of the JDBC 4 driver did not have the vendor code.
The vendor code was always 0.


- Property statusRequest added.

An encoding bug with the XML data type of the SQL Server 2005 was fixed.

The following properties will now be respected by TdsDataSource.equals():
- appname, dstsave, fulltran, impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare,
- prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID.


- The error &quot;The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly.&quot; with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.

- The follow SQL &quot;SELECT {ts '2007-10-19 10:20:30.000'}&quot; returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.

- A regression in CachedRowSource with data type NTEXT has produce an error like &quot;The data types ntext and nvarchar are incompatible in the is operator.&quot;.

- Instances of PDataSource could not have been serialized.

- &lt;em&gt;hostProcess&lt;/em&gt; is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table &lt;em&gt;sysprocesses&lt;/em&gt;. It is also used for JDBC logging.

- With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000&lt;br/&gt; [xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;.

- A NullPointerException with deserialize of the CachedRowSet was fixed.
The methods deleteRow() with the SQL Server 2005 SP2 could throw the exception &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>&lt;xyz2005&gt;Could not find server &amp;#039;xyz2005&amp;#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Fix a bug with Windows NT authentication and SQL Server 2005.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Connection property resultSetType added.&lt;/div&gt;
&lt;/li&gt;
&lt;/ul&gt;


A fix for the message &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with mars=true and SQL Server 2005 was fixed.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The error &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with a very fast cancel() was fixed.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The error message &quot;Could not find prepared statement with handle 0.&quot; was fixed.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The method DataSource.setUrl was added.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The call ResultSet.findColumn( &quot;&quot; ) did not find empty columns.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error &quot;Error converting data type decimal to decimal.&quot;&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Some error handling was added for connecting to prevent problems in stress conditions.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.&lt;/div&gt;
&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.&lt;/div&gt;
There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

Connection property resultSetType was not used for PreparedStatement and CallableStatement.

There could be a very rare exception "You are tried to connect to SQL Server 6.5 with the sql7 mode." with SQL Server 2005 when calling getConnection().

Classes DTCDatasource4 and PDatasource4 were added for 100% JDBC 4.0 compliance.

Empty strings in CacheRowSet changed to null values after serialization.

A very rare "ArrayIndexOutOfBoundsException: Array index out of range: 0" on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.

The inactive timeout of the PoolManager is now reset with every method call.

The property fastbatch was added.

A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn(String) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x, Types.LONGNVARCHAR) was fixed.
<div class="level3">
<li class="level1"><div class="li"> Fixed some bugs in ParameterMetaData.</div>
</li>
<li class="level1"><div class="li"> Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.</div>
</li>
<li class="level1"><div class="li"> A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.</div>
</li>
<li class="level1"><div class="li"> Fixed some bugs in setClientInfo(String,String) and optimized performance.</div>
</li>
<li class="level1"><div class="li"> Removed the finalize() method from the Connection object.</div>
</li>
<li class="level1"><div class="li"> Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.</div>
</li>
<li class="level1"><div class="li"> Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.</div>
</li>
<li class="level1"><div class="li"> Fixed the very rare exception &quot;java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().</div>
</li>
</div>


<div class="level3">
<li class="level1"><div class="li"> Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.</div>
</li>
<li class="level1"><div class="li"> A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true
was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.</div>
</li>
<li class="level1"><div class="li"> With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.</div></li>
<li class="level1"><div class="li"> A memory leak in the DTCPProxy was fixed.</div></li>
<li class="level1"><div class="li"> Long-running XA transactions were rolled back after 10 minutes under very rare conditions.</div></li>
</ul>

<ul>
<li class="level1"><div class="li"> Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</div></li>
<li class="level1"><div class="li"> Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div></li>
<li class="level1"><div class="li"> Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div></li>
</ul>

<ul>
<li class="level1"><div class="li"> Added property packetSize and changed the default from server default to 8000.</div></li>
<li class="level1"><div class="li"> Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.</div></li>
<li class="level1"><div class="li"> Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.</div></li>
<li class="level1"><div class="li"> The method getClob() returned wrong data for data type VARCHAR(MAX).</div></li>
</ul>
<li>Changed the default value of impltran for PDataSource to false.</li>
</div>
</ul>


<ul>
<li>A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in <abbr title="American Standard Code for Information Interchange">ASCII</abbr> mode (sub protocol inetdae6 and inetdae7a).</li>
<li>A regression with ParameterMetaData note setting parameters was fixed.</li>
<li>An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.</li>
<li>A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.</li>
</ul>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>

<ul>
<li>A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.</li>
</ul>


<ul>
<li>Does not use the package sun.misc.* on Java 6 and newer.</li>
</ul>


<ul>
<li>A DatagramSocket leak with JDBC connections with instance name was fixed.</li>
</ul>
In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached.

Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.

Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x, Calendar) on DATETIME2 column with a precision smaller 7.

Added support for VNN (virtual network names) together with instance names.

Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.

No longer write the password to the driver log.

Add the interface NtlmHandshake to support an external NTLM login source.

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Version 2.1, February 1999

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

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.

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user can modify the Library and then relink to produce a modified
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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 materials to be 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
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* Third-Party Component Notices

DOCUMENTATION LOCATION

The documentation formerly contained in this file has moved into the 'doc' directory, where it is available in HTML, PDF and plaintext forms.

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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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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
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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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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 materials to be 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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d) If a facility in the modified Library refers to a function or a

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table of data to be supplied by an application program that uses

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the facility, other than as an argument passed when the facility

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is invoked, then you must make a good faith effort to ensure that,

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in the event an application does not supply such function or

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table, the facility still operates, and performs whatever part of

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its purpose remains meaningful.

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(For example, a function in a library to compute square roots has
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Section 6 states terms for distribution of such executables.

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When a "work that uses the Library" uses material from a header file

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that is part of the Library, the object code for the work may be a

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derivative work of the Library even though the source code is not.

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Whether this is true is especially significant if the work can be

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linked without the Library, or if the work is itself a library. The

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threshold for this to be true is not precisely defined by law.

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If such an object file uses only numerical parameters, data

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structure layouts and accessors, and small macros and small inline

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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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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:

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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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 materials to be 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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This option is useful when you wish to copy part of the code of

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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Otherwise, if the work is a derivative of the Library, you may

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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

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For an executable, the required form of the "work that uses the

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the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major

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*/

cr/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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*/

src/plugin/lib-xml/lib/saxpath.jar

/"*/

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

src/plugin/lib-xml/lib/xercesImpl.jar

ASF

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1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above
1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -P test-functional,codeCoverage: will run all tests in the test-functional profile and generate code
coverage reports using EMMA.

1.2. Setting up your username and password to make releases and shapshot release
----------------------------------------------------------------------------------------------

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```
<settings>

...

<servers>

...

<server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss.snapshots</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss.releases</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>

...

</servers>

...

</settings>
```

1.3. Deploying a release to a live repository
------------------------------------------------------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.
The JBoss repository will hold this release in a staging directory which can be accessed by logging in to

https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as
a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are
currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------

* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no
test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and
Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional
group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------

The default run executes all tests in the functional group. To just run the tests with txt and xml output the command
is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the
report-only goal, ike so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

```
$ mvn -P test-jgroups test
```

2.4. Executing a single test
----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

```
$ mvn -P test-XXX -Dtest=FqnTest test
```

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test
```

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/*/ test
```

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run. To do this, simply use the maven.test.skip.exec property:

```
$ mvn -Dmaven.test.skip.exec=true install
```

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

```
$ mvn -Pjgroups-tcp surefire-report:report
```
Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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You can contact Elliotte Rusty Harold by sending e-mail to elharo@metalab.unc.edu. Please include the word "XOM" in the subject line. For more information see http://www.xom.nu/ or ask a question on the xom-interest mailing list.
1.273 libverto 0.2.5-4.el7

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1.274 lksctp-tools 1.0.17-2.el7

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For an executable, the required form of the "work that uses the
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1.278 xorg 7.7+7

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    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
        <xsl:call-template name="isc.copyright.format">
            <xsl:with-param name="text" select="$rest"/>
        </xsl:call-template>
    </xsl:if>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5bb6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Version 2.1, February 1999

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1.312 sysv-init 2.88dsf-59

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* A rewrite of the original Debian's start-stop-daemon Perl script
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.313 adduser 3.113+nmu3

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Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.319 keyutils 1.5.8 3.el7
1.319.1 Available under license:

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machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
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<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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necessary. Here is a sample; alter the names:

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`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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(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.

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.

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.

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.)
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
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of these things:

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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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 materials to be 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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 */

package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Modifier;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import java.util.stream.Collectors;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

/**
 * A basic ConfigurablePropertyAccessor that provides the necessary infrastructure for all typical use cases.
 * This accessor will convert collection and array values to the corresponding target collections or arrays, if necessary. Custom property editors that deal with collections or arrays can either be written via PropertyEditor's setValue, or against a comma-delimited String via setAsText, as String arrays are converted in such a format if the array itself is not assignable.
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @author Rod Johnson
 * @author Rob Harrop
 * @since 4.2
 * @see registerCustomEditor
 * @see setPropertyValues
 * @see setPropertyValue
 * @see getPropertyValue
public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

/**
 * We'll create a lot of these objects, so we don't want a new logger every time.
 */
private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

@Nullable
Object wrappedObject;

private String nestedPath = "";

@Nullable
Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance. */
@Nullable
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * Registers default editors.
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor() {
    this(true);
}

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the accessor won't need any type conversion)
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}
/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<?> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param parent the containing accessor (must not be @code null)
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {
    setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
    setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
    setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
    setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
    setConversionService(parent.getConversionService());
}

/**
* Specify a limit for array and collection auto-growing.
* <p>Default is unlimited on a plain accessor.
* */
public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
    this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}

/**
 * Return the limit for array and collection auto-growing.
 */
public int getAutoGrowCollectionLimit() {
    return this.autoGrowCollectionLimit;
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 */
public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
public void setWrappedInstance(Object object, @Nullable String nestedPath, @Nullable Object rootObject) {
    this.wrappedObject = ObjectUtils.unwrapOptional(object);
    Assert.notNull(this.wrappedObject, "Target object must not be null");
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!this.nestedPath.isEmpty() ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}

public final Object getWrappedInstance() {
    Assert.state(this.wrappedObject != null, "No wrapped object");
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return getWrappedInstance().getClass();
}
/**
 * Return the nested path of the object wrapped by this accessor.
 */
public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    Assert.state(this.rootObject != null, "No root object");
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<?> getRootClass() {
    return getRootInstance().getClass();
}

@Override
public void setPropertyValue(String propertyName, @Nullable Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    }
    catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Nested property in path "+ propertyName + " does not exist", ex);
    }
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
public void setPropertyValue(PropertyValue pv) throws BeansException {
    PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
    if (tokens == null) {
        String propertyName = pv.getName();
        AbstractNestablePropertyAccessor nestedPa;
        try {
            nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        }
        catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                    "Nested property in path "+ propertyName + " does not exist", ex);
        }
        PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
        nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
    }
}

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throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,  
"Nested property in path " + propertyName + " does not exist", ex);
}
tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
if (nestedPa == this) {
    pv.getOriginalPropertyValue().resolvedTokens = tokens;
}
nestedPa.setPropertyValue(tokens, pv);
}
else {
    setPropertyValue(tokens, pv);
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
    if (tokens.keys != null) {
        processKeyedProperty(tokens, pv);
    } else {
        processLocalProperty(tokens, pv);
    }
}

@SuppressWarnings("unchecked")
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    Object propValue = getPropertyHoldingValue(tokens);
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.actualName, "No property handler found");
    }
    Assert.state(tokens.keys != null, "No token keys");
    String lastKey = tokens.keys[tokens.keys.length - 1];

    if (propValue.getClass().isArray()) {
        Class<?> requiredType = propValue.getClass().getComponentType();
        int arrayIndex = Integer.parseInt(lastKey);
        Object oldValue = null;
        try {
            if (isExtractOldValueForEditor() && arrayIndex < Array.getLength(propValue)) {
                oldValue = Array.get(propValue, arrayIndex);
            }
            Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
                requiredType, ph.nested(tokens.keys.length));
            int length = Array.getLength(propValue);
            if (arrayIndex >= length && arrayIndex < this.autoGrowCollectionLimit) {
                Class<?> componentType = propValue.getClass().getComponentType();
                Object newArray = Array.newInstance(componentType, arrayIndex + 1);
System.arraycopy(propValue, 0, newArray, 0, length);
setPropertyValue(tokens.actualName, newArray);
propValue = getPropertyValue(tokens.actualName);
}
Array.set(propValue, arrayIndex, convertedValue);
}
catch (IndexOutOfBoundsException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Invalid array index in property path """ + tokens.canonicalName + "", ex);
}
}

else if (propValue instanceof List) {
Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
List<Object> list = (List<Object>) propValue;
int index = Integer.parseInt(lastKey);
Object oldValue = null;
if (isExtractOldValueForEditor() && index < list.size()) {
oldValue = list.get(index);
}
Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
requiredType, ph.nested(tokens.keys.length));
int size = list.size();
if (index >= size && index < this.autoGrowCollectionLimit) {
for (int i = size; i < index; i++) {
try {
list.add(null);
}
catch (NullPointerException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Cannot set element with index " + index + " in List of size " +
size + ", accessed using property path """ + tokens.canonicalName + 
": List does not support filling up gaps with null elements");
}
list.add(convertedValue);
}
else {
try {
list.set(index, convertedValue);
}
catch (IndexOutOfBoundsException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Invalid list index in property path """ + tokens.canonicalName + "", ex);
}
}
else if (propValue instanceof Map) {
  Class<?> mapKeyType = ph.getMapKeyType(tokens.keys.length);
  Class<?> mapValueType = ph.getMapValueType(tokens.keys.length);
  Map<Object, Object> map = (Map<Object, Object>) propValue;
  // IMPORTANT: Do not pass full property name in here - property editors
  // must not kick in for map keys but rather only for map values.
  TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
  Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
  Object oldValue = null;
  if (isExtractOldValueForEditor()) {
    oldValue = map.get(convertedMapKey);
  }
  // Pass full property name and old value in here, since we want full
  // conversion ability for map values.
  Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
    mapValueType, ph.nested(tokens.keys.length));
  map.put(convertedMapKey, convertedMapValue);
}
else {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Property referenced in indexed property path ".
    tokens.canonicalName +
    " is neither an array nor a List nor a Map; returned value was [" + propValue + "]");
}

private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
  // Apply indexes and map keys: fetch value for all keys but the last one.
  Assert.state(tokens.keys != null, "No token keys");
  PropertyTokenHolder getterTokens = new PropertyTokenHolder(tokens.actualName);
  getterTokens.canonicalName = tokens.canonicalName;
  getterTokens.keys = new String[tokens.keys.length - 1];
  System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);
  Object propValue;
  try {
    propValue = getPropertyValue(getterTokens);
  }
  catch (NotReadablePropertyException ex) {
    throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
      "Cannot access indexed value in property referenced ".
      tokens.canonicalName + " in indexed property path ".
      tokens.canonicalName + ",
      ex);}
  }

  if (propValue == null) {
    // null map value case
    if (isAutoGrowNestedPaths()) {
      int lastKeyIndex = tokens.canonicalName.lastIndexOf('[');
getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
propValue = setDefaultValue(getterTokens);
}
else {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Cannot access indexed value in property referenced " +
"in indexed property path" + tokens.canonicalName + ": returned null");
}
return propValue;
}

private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
if (ph == null || !ph.isWritable()) {
if (pv.isOptional()) {
if (logger.isDebugEnabled()) {
logger.debug("Ignoring optional value for property ", " + tokens.actualName +" - property not found on bean class [" + getRootClass().getName() + "]");
}
return;
}
else {
throw createNotWritablePropertyException(tokens.canonicalName);
}

Object oldValue = null;
try {
Object originalValue = pv.getValue();
Object valueToApply = originalValue;
if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
if (pv.isConverted()) {
valueToApply = pv.getConvertedValue();
}
else {
if (isExtractOldValueForEditor() && ph.isReadable()) {
try {
oldValue = ph.getValue();
}
catch (Exception ex) {
if (ex instanceof PrivilegedActionException) {
ex = ((PrivilegedActionException) ex).getException();
}
if (logger.isDebugEnabled()) {
logger.debug("Could not read previous value of property ", " + this.nestedPath + tokens.canonicalName + ", ex);
}
valueToApply = convertForProperty(tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());

pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);

ph.setValue(valueToApply);

catch (TypeMismatchException ex) {
  throw ex;
}

catch (InvocationTargetException ex) {
  PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
  if (ex.getTargetException() instanceof ClassCastException) {
    throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
  }
  else {
    Throwable cause = ex.getTargetException();
    if (cause instanceof UndeclaredThrowableException) {
      // May happen e.g. with Groovy-generated methods
      cause = cause.getCause();
    }
    throw new MethodInvocationException(propertyChangeEvent, cause);
  }
}

catch (Exception ex) {
  PropertyChangeEvent pce = new PropertyChangeEvent(getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
  throw new MethodInvocationException(pce, ex);
}

@Override
@Nullable
public Class<?> getPropertyType(String propertyName) throws BeansException {
  try {
    PropertyHandler ph = getPropertyHandler(propertyName);
    if (ph != null) {
      return ph.getPropertyType();
    }
    else {
      // Maybe an indexed/mapped property...
      Object value = getPropertyValue(propertyName);
      if (value != null) {
        return value.getClass();
      }
    }
  }
  return null;
}
// Check to see if there is a custom editor,
// which might give an indication on the desired target type.
Class<?> editorType = guessPropertyTypeFromEditors(propertyName);
if (editorType != null) {
    return editorType;
}
}
}
catch (InvalidPropertyException ex) {
    // Consider as not determinable.
    }
return null;
}

@Override
@Nullable
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
    try {
        AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        String finalPath = getFinalPath(nestedPa, propertyName);
        PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
        PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
        if (ph != null) {
            if (tokens.keys != null) {
                if (ph.isReadable() || ph.isWritable()) {
                    return ph.nested(tokens.keys.length);
                }
            } else {
                if (ph.isReadable() || ph.isWritable()) {
                    return ph.toTypeDescriptor();
                }
            }
        }
        catch (InvalidPropertyException ex) {
            // Consider as not determinable.
            }
        return null;
    }

    @Override
    public boolean isReadableProperty(String propertyName) {
        try {
            PropertyHandler ph = getPropertyHandler(propertyName);
            if (ph != null) {
                return ph.isReadable();
            }
        }
    }
else {
    // Maybe an indexed/mapped property...
    getPropertyValue(propertyName);
    return true;
}

catch (InvalidPropertyException ex) {
    // Cannot be evaluated, so can't be readable.
    return false;
}

@Override
public boolean isWritableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isWritable();
        }
        else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be writable.
        return false;
    }

    @Nullable
    private Object convertIfNecessary(@Nullable String propertyName, @Nullable Object oldValue,
    @Nullable Object newValue, @Nullable Class<?> requiredType, @Nullable TypeDescriptor td)
    throws TypeMismatchException {

        Assert.state(this.typeConverterDelegate != null, "No TypeConverterDelegate");
        try {
            return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
        }
        catch (ConverterNotFoundException | IllegalStateException ex) {
            PropertyChangeEvent pce =
            new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
            throw new ConversionNotSupportedException(pce, requiredType, ex);
        }
        catch (ConversionException | IllegalArgumentException ex) {
            PropertyChangeEvent pce =
            new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
            throw new ConversionNotSupportedException(pce, requiredType, ex);
        }

        return null;
    }
}
throw new TypeMismatchException(pce, requiredType, ex);
}
}

@Nullable
protected Object convertForProperty(
    String propertyName, @Nullable Object oldValue, @Nullable Object newValue, TypeDescriptor td)
throws TypeMismatchException {

    return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Override
@Nullable
public Object getPropertyValue(String propertyName) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    return nestedPa.getPropertyValue(tokens);
}

@SuppressWarnings("unchecked")
@Nullable
protected Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;
    PropertyHandler ph = getLocalPropertyHandler(actualName);
    if (ph == null || !ph.isReadable()) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
    }
    try {
        Object value = ph.getValue();
        if (tokens.keys != null) {
            if (value == null) {
                if (isAutoGrowNestedPaths()) {
                    value = setDefaultValue(new PropertyTokenHolder(tokens.actualName));
                } else {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot access indexed value of property referenced in indexed "+
                        "property path "+ propertyName + ": returned null");
                }
            } else {
                throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                    "Cannot access indexed value of property referenced in indexed "+
                    "property path "+ propertyName + "": returned null");
            }
        }
        StringBuilder indexedPropertyName = new StringBuilder(tokens.actualName);
        // apply indexes and map keys
        for (int i = 0; i < tokens.keys.length; i++) {
            String key = tokens.keys[i];
            if (value == null) {
                throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                    "Cannot access indexed value of property referenced in indexed "+
                    "property path "+ propertyName + ": returned null");
            }
        }
    }
}
"Cannot access indexed value of property referenced in indexed " + "property path "+ propertyName + ": returned null";
} else if (value.getClass().isArray()) {
    int index = Integer.parseInt(key);
    value = growArrayIfNecessary(value, index, indexedPropertyName.toString());
    value = Array.get(value, index);
} else if (value instanceof List) {
    int index = Integer.parseInt(key);
    List<Object> list = (List<Object>) value;
    growCollectionIfNecessary(list, index, indexedPropertyName.toString(), ph, i + 1);
    value = list.get(index);
} else if (value instanceof Set) {
    // Apply index to Iterator in case of a Set.
    Set<Object> set = (Set<Object>) value;
    int index = Integer.parseInt(key);
    if (index < 0 || index >= set.size()) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Cannot get element with index " + index + " from Set of size " + set.size() + ", accessed using property path " + propertyName + ");
    }
    Iterator<Object> it = set.iterator();
    for (int j = 0; it.hasNext(); j++) {
        Object elem = it.next();
        if (j == index) {
            value = elem;
            break;
        }
    }
} else if (value instanceof Map) {
    Map<Object, Object> map = (Map<Object, Object>) value;
    Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
    value = map.get(convertedMapKey);
} else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
    "Property referenced in indexed property path " + propertyName + " is neither an array nor a List nor a Set nor a Map; returned value was [" + value + "]");
}
indexedPropertyName.append(PROPERTY_KEY_PREFIX).append(key).append(PROPERTY_KEY_SUFFIX);
} return value;
}

catch (IndexOutOfBoundsException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Index of out of bounds in property path '" + propertyName + "', ex);
}
catch (NumberFormatException | TypeMismatchException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Invalid index in property path '" + propertyName + "', ex);
}
catch (InvocationTargetException ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Getter for property '" + actualName + "' threw exception", ex);
}
catch (Exception ex) {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Illegal attempt to get property '" + actualName + "' threw exception", ex);
}
}

/**
 * Return the [@link PropertyHandler] for the specified [@code propertyName], navigating
 * if necessary. Return [@code null] if not found rather than throwing an exception.
 * @param propertyName the property to obtain the descriptor for
 * @return the property descriptor for the specified property,
 * or [@code null] if not found
 * @throws BeansException in case of introspection failure
 */
@Nullable
protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
Assert.notNull(propertyName, "Property name must not be null");
AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}

/**
 * Return a [@link PropertyHandler] for the specified local [@code propertyName].
 * Only used to reach a property available in the current context.
 * @param propertyName the name of a local property
 * @return the handler for that property, or [@code null] if it has not been found
 */
@Nullable
protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

/**
 * Create a new nested property accessor instance.
* Can be overridden in subclasses to create a PropertyAccessor subclass.
* @param object object wrapped by this PropertyAccessor
* @param nestedPath the nested path of the object
* @return the nested PropertyAccessor instance
*/
protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String nestedPath);

/**
 * Create a {link NotWritablePropertyException} for the specified property.
 */
protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
    if (!isAutoGrowNestedPaths()) {
        return array;
    }
    int length = Array.getLength(array);
    if (index >= length && index < this.autoGrowCollectionLimit) {
        Class<?> componentType = array.getClass().getComponentType();
        Object newArray = Array.newInstance(componentType, index + 1);
        System.arraycopy(array, 0, newArray, 0, length);
        for (int i = length; i < Array.getLength(newArray); i++) {
            Array.set(newArray, i, newValue(componentType, null, name));
        }
        setPropertyValue(name, newArray);
        Object defaultValue = getPropertyValue(name);
        Assert.state(defaultValue != null, "Default value must not be null");
        return defaultValue;
    } else {
        return array;
    }
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name, PropertyHandler ph, int nestingLevel) {
    if (!isAutoGrowNestedPaths()) {
        return;
    }
    int size = collection.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        Class<?> elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
        if (elementType != null) {
            for (int i = collection.size(); i < index + 1; i++) {
                collection.add(newValue(elementType, null, name));
            }
        }
    }
/**
 * Get the last component of the path. Also works if not nested.
 * @param pa property accessor to work on
 * @param nestedPath property path we know is nested
 * @return last component of the path (the property on the target bean)
 */
protected String getFinalPath(AbstractNestablePropertyAccessor pa, String nestedPath) {
    if (pa == this) {
        return nestedPath;
    }
    return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
}

/**
 * Recursively navigate to return a property accessor for the nested property path.
 * @param propertyPath property path, which may be nested
 * @return a property accessor for the target bean
 */
@SuppressWarnings("unchecked")  // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(String propertyPath) {
    int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath);
    // Handle nested properties recursively.
    if (pos > -1) {
        String nestedProperty = propertyPath.substring(0, pos);
        String nestedPath = propertyPath.substring(pos + 1);
        AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
        return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);
    } else {
        return this;
    }
}

/**
 * Retrieve a Property accessor for the given nested property.
 * Create a new one if not found in the cache.
 * <p>Note: Caching nested PropertyAccessors is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the PropertyAccessor for
 * @return the PropertyAccessor instance, either cached or newly created
 */
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
    if (this.nestedPropertyAccessors == null) {

this.nestedPropertyAccessors = new HashMap<>();

// Get value of bean property.
PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
String canonicalName = tokens.canonicalName;
Object value = getPropertyValue(tokens);
if (value == null || (value instanceof Optional && !((Optional) value).isPresent())) {
    if (isAutoGrowNestedPaths()) {
        value = setDefaultValue(tokens);
    } else {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
    }
}

// Lookup cached sub-PropertyAccessor, create new one if not found.
AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
if (nestedPa == null || nestedPa.getWrappedInstance() != ObjectUtils.unwrapOptional(value)) {
    if (logger.isTraceEnabled()) {
        logger.trace("Creating new nested "+ getSimpleName()+" for property "+ canonicalName + ";");
    }
    nestedPa = newNestedPropertyAccessor(value, this.nestedPath + canonicalName + NESTEDPROPERTY_SEPARATOR);
    // Inherit all type-specific PropertyEditors.
copyDefaultEditorsTo(nestedPa);
copyCustomEditorsTo(nestedPa, canonicalName);
    this.nestedPropertyAccessors.put(canonicalName, nestedPa);
} else {
    if (logger.isTraceEnabled()) {
        logger.trace("Using cached nested property accessor for property "+ canonicalName + ");
    }
    }
return nestedPa;
}

private Object setDefaultValue(PropertyTokenHolder tokens) {
    PropertyValue pv = createDefaultPropertyValue(tokens);
    setPropertyValue(tokens, pv);
    Object defaultValue = getPropertyValue(tokens);
    Assert.state(defaultValue != null, "Default value must not be null");
    return defaultValue;
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
    TypeDescriptor desc = getpropertyTypeDescriptor(tokens.canonicalName);
    if (desc == null) {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,}

}
"Could not determine property type for auto-growing a default value");
}
Object defaultValue = newValue(desc.getType(), desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, @Nullable TypeDescriptor desc, String name) {
  try {
    if (type.isArray()) {
      Class<?> componentType = type.getComponentType();
      // TODO - only handles 2-dimensional arrays
      if (componentType.isArray()) {
        Object array = Array.newInstance(componentType, 1);
        Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
        return array;
      } else {
        return Array.newInstance(componentType, 0);
      }
    } else if (Collection.class.isAssignableFrom(type)) {
      TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
      return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
    } else if (Map.class.isAssignableFrom(type)) {
      TypeDescriptor keyDesc = (desc != null ? desc.getMapKeyTypeDescriptor() : null);
      return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
    } else {
      Constructor<?> ctor = type.getDeclaredConstructor();
      if (Modifier.isPrivate(ctor.getModifiers())) {
        throw new IllegalAccessException("Auto-growing not allowed with private constructor: " + ctor);
      }
      return BeanUtils.instantiateClass(ctor);
    }
  }
  catch (Throwable ex) {
    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + name,
    "Could not instantiate property type [" + type.getName() + "] to auto-grow nested property path", ex);
  }
}

/**
 * Parse the given property name into the corresponding property name tokens.
 * @param propertyName the property name to parse
 * @return representation of the parsed property tokens
 */
private PropertyTokenHolder getPropertyNameTokens(String propertyName) {
String actualName = null;
List<String> keys = new ArrayList<>(2);
int searchIndex = 0;
while (searchIndex != -1) {
int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
searchIndex = -1;
if (keyStart != -1) {
int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
PROPERTY_KEY_PREFIX.length());
if (keyEnd != -1) {
if (actualName == null) {
actualName = propertyName.substring(0, keyStart);
}
String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
if (key.length() > 1 && (key.startsWith("'") && key.endsWith("'")) ||
(key.startsWith("\"") && key.endsWith("\""))) {
key = key.substring(1, key.length() - 1);
}
keys.add(key);
searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
}
}
}
PropertyTokenHolder tokens = new PropertyTokenHolder(actualName != null ? actualName : propertyName);
if (!keys.isEmpty()) {
tokens.canonicalName += PROPERTY_KEY_PREFIX +
StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
PROPERTY_KEY_SUFFIX;
tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}
@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
}
else {
sb.append(": no wrapped object set");
}
return sb.toString();
}

/**
* A handler for a specific property.

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/
protected abstract static class PropertyHandler {

    private final Class<?> propertyType;

    private final boolean readable;

    private final boolean writable;

    public PropertyHandler(Class<?> propertyType, boolean readable, boolean writable) {
        this.propertyType = propertyType;
        this.readable = readable;
        this.writable = writable;
    }

    public Class<?> getPropertyType() {
        return this.propertyType;
    }

    public boolean isReadable() {
        return this.readable;
    }

    public boolean isWritable() {
        return this.writable;
    }

    public abstract TypeDescriptor toTypeDescriptor();

    public abstract ResolvableType getResolvableType();

    @Nullable
    public Class<?> getMapKeyType(int nestingLevel) {
        return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(0);
    }

    @Nullable
    public Class<?> getMapValueType(int nestingLevel) {
        return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(1);
    }

    @Nullable
    public Class<?> getCollectionType(int nestingLevel) {
        return getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
    }

    @Nullable
    public abstract TypeDescriptor nested(int level);
@Nullable
public abstract Object getValue() throws Exception;

public abstract void setValue(@Nullable Object value) throws Exception;
}

/**
 * Holder class used to store property tokens.
 */
protected static class PropertyTokenHolder {

    public PropertyTokenHolder(String name) {
        this.actualName = name;
        this.canonicalName = name;
    }

    public String actualName;

    public String canonicalName;

    @Nullable
    public String[] keys;
}

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</head>
<body>
<script type="text/javascript">prefix='';</script>
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Although their code does not appear in gd, the authors wish to thank David Koblas, David Rowley, and Hutchison Avenue Software Corporation for their prior contributions.

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.
Other documentation files in the distribution are:

User documentation:
install.doc  How to configure and install the IJG software.
usage.doc   Usage instructions for cjpe, djpeg, jpegtran, rdjpgcom, and wrjpcom.
*.1        Unix-style man pages for programs (same info as usage.doc).
wizard.doc  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c   Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library’s internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren’t implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented arithmetic coder.)
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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1.328 percolator-client 7.2.0

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1.348 zuul-core 1.3.1

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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

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Martin Petraschek &lt;m9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms &lt;jgarsms#yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford &lt;mike#big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;ssr002#yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef#skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciosk#max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun ICE.

Thomas Houtekier &lt;Thomas.Houtekier#tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.
Don Hillsberry &lt;hillsber&#064;dialcorp.com&gt; - S/Mime testing and debugging.

Kazuo Furuya &lt;kfuruya&#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny&#064;lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey&#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS&#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin&#064;chapweske.com&gt; - ordering patch for Tiger message digest.

John Seroock &lt;jseroock&#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Andrea Weinert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;lo_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey&#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clauß &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;jarek.gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles&#064;#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

J&amp;ouml;n von Kattchee &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.

Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;eso&#064;#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.

J&amp;ouml;n Schwarze &lt;JSchwarze&#064;#064;ulc.de&gt; - Locale fix for the clean room JCE.

Bryan Lovquist &lt;bkl&#064;#064;bps.com.au&gt; - Other provider compatibility fixes for CMS signing.

Artem Portnoy &lt;Artem_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael H&amp;auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.

Johan Seland &lt;johans&#064;#064;netfonds.no&gt; - general toString for BigInteger class.

Johannes Nicoli &lt;johannes.nicoli&#064;#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva &lt;marc.doberva&#064;#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.
Jan Dvorak &lt;jan.dvorak@mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jcohen@forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long &lt;clong@064ece.cmu.edu&gt; - adding public key decoding to PEMReader.

Hes Siemelink &lt;hes@064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu &lt;stefanpuiuro@yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiseryang@yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@064printx.com&gt; - patch toDSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;m_Dvorak@cryptotech.com.pl&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@064cqpd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@064cryptotech.com.pl&gt; - patch to DERGeneralizedTime.

Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUit.

Ian Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;s34gull@mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmmm@myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim@064miruford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.
Michael Hausler &lt;haeusler#064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph#064digweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz#064agendenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva#064bedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGP publicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCSSSS2ParametersGenerator.

Tom Cargill &lt;cargill#064profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;C.Breitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zandotti#064cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;nscondoni#064babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytta &lt;ville.skytta#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon#savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley#064savvis.net.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amolina#064evinitia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javi#javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;jonihahkala#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiiko Yamakata &lt;ymnak#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshackov &lt;tyrex#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer &lt;soren.hilmer@tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell@intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier@free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso@ libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterson@burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.molotkov@intel.com&gt; - extensive provider exception handling compliance testing.

Fiorin Kollan &lt;adlocflo@web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;pavlas@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Luukas Kowalczyk &lt;luukas.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@064crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.net&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;Jwrmctan@#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href=&quot;http://www.keyon.ch&quot;&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&amp;ouml;rger Eichhorn &amp;lt;eichhorn@#064ponton-consulting.de&amp;gt; - patch to fix EOF read on SharedFileInputSteam, support for F2m compression.

Karsten Ohme &lt;widerstand@#064t-online.de&amp;gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair enumeration. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@#064tradise.com&amp;gt; - patch for &amp;lt;ctrl&amp;gt;&amp;lt;m&amp;gt; only handling in CRLFOutputSteam.

John Alfred Prufrock &lt;j.a.prufrock@#064gmail.com&amp;gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@#064gmail.com&amp;gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@#064gmail.com&amp;gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@#064gmx.de&amp;gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@#064yahoo.com&amp;gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&amp;gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@#064gmail.com&amp;gt; - support for tags &gt; 30 in ASN.1 parsing.

Armin H&amp;auml;rbling &lt;arminha@student.ethz.ch&amp;gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schi&ddot;lder &lt;mschilder@#064google.com&amp;gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier@#064britanysoftware.com&amp;gt; - general code clean ups.
Erik Tews &lt;e_tews@cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;d Dixon@reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;joaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käthler &lt;olga.kaethler@#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

Núria Marí &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064brn.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;fk knopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;gwozdziu@#064rpm.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;g contini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in
response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaynd@064lemaynd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102].</li>
<li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañaga &lt;ilarra@21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir@bucalovic.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;robbe@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul Fitzpatrick &lt;bouncycastle@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@gmail.com&gt; - subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@gmail.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimminger &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DEREternal, DNS performance fix for SMIME APL.</li>
<li>Richard Farr &lt;farr.se@064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat@yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alexsart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris.h.cole@064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom@064atack.cz&gt; - added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfa@064t-online.de&gt; - correction of field error in getResponse method in
Open Source Used In Cisco Auto Inline Retuner 2.0.13546

CertRepMessage.

Trevor Perrin &lt;trevor@064crypto.org&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kil@arings &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbncq.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgowan@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;ivo.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;marco.sandrini@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alf.malf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;petar.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective
coordinates for EC.\</li>
<li>Andy Neilson &lt;Andy.Neilson@064quest.com&gt;: additional patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth@064WPECGLtYbi8RI6Y7Vzl2Lvd2EUVW99v3yNV3JWROG8.fms&gt;: speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny@064the-b.org&gt;: patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt;: initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b@064gahoo.com&gt;: Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc@064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lidén Borell &lt;samuel@064primekey.se&gt;: patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt;: pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt;: patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt;: patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;t5555d@064gmail.com&gt;: initial cut of DVCS classes.</li>
<li>Damian Kolasa &lt;fatfredyy@gmail.com&gt;: ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt;: patches for supporting PGPPrivateKeyRing/PGPPrivateKey encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt;: patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.athome@064gmail.com&gt;: initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio@064methics.fi&gt;: tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
<li>Babak Najafi &lt;bnajafi@064akamai.com&gt;: fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M\uuuml;ller &lt;eric.mueller@064sage.de&gt;: additional standard algorithm name lookups in JcaPEMKeyConverter.
<li>Mathias Herberts &lt;Mathias.Herberts@gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov@gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc@gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
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<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>
<li>Waldenmar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
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<li>Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.
<li>lartiguePierre@https://github.com/lartiguePierre@ Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot@https://github.com/thomas.belot+BC@#064gmail.com@ initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce@https://github.com/rdcroce@ Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>BJ&ouml;rn Kautler@https://github.com/Vampire@ Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&uuml;rmann@https://github.com/dschermann@ method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael @https://github.com/MSKnete#064web.de@ initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Tobias Wagner &lt;tobias.wagner#064n-design.de@ Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro#064google.com@ Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette@https://github.com/bschuette@ Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot@https://github.com/dallotTazTag@ Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle#064lxtreme.nl@ Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de@ Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer#064gmail.com@ Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles#064opentrust.com@ Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95#064gmail.com@ Fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran@https://github.com/akwizgran@ Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff#064cryptovision.com@ BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat#064gmail.com@ Fixed bugs in TLsUtils read methods [#BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig@ Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute;&eacute; Berenguel &lt;https://github.com/aberenguel@ Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski@ Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev@ Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77#064gmail.com@ Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001@https://github.com/jdvorak001@ Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle#064grierforensics.com@ Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre@https://github.com/andrebons@ NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof@ defect analysis and additional test cases for the provider.
<li>Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storojis72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis&#064me.com&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>eekszz &lt;https://github.com/eekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott&#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSS-MT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/bernd&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.
Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt;: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu#064gmail.com&gt;: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt;: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt;: initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt;: initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;: corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt;: improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.


Gilis95 &lt;https://github.com/Gilis95&gt;: improved JSSE compatibility for setEnabledCipherSuites.


Antoine Toulme &lt;https://github.com/atoumlme&gt;: Initial implementation of EthereumI2SEngine.


Moses Palm&ecute;r, TrueSec &lt;Henrik.Palmer#064truesec.se&gt;: Additional improvements to constant time comparisons.

Ren&ecute; Korthaus&lt;https://github.com/THausherr&gt;: Addition generic support for CMS/TSP functions.

Gaylor Bosson&lt;https://github.com/Gilthoniel&gt;: Initial implementation of Blake2xs.


Nick hitchan&lt;https://github.com/hitchan&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.


Daniel Heldt&lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekewe&lt;https://github.com/Xor-el&gt;: Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt;: addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt;: update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt;: Initial ChaCha20Poly1305 prototype.
1.356 hostname 3.21

1.356.1 Available under license:
hostname -- set the host name or show the host/domain name

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2009-     Michael Meskes <meskes@debian.org>

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1.357 lz4-java 1.4.1

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1.359 iputils 20160308 10.el7

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1.365 debconf 1.5.56+deb8u1

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1.375 antlr 2.7.7

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1.378 io-swagger-swagger-annotations 1.5.20

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1.389 bcpkix-jdk15on 1.61

1.390 libsepol 2.7-1

1.390.1 Available under license:
    This is the Debian packe for libsepol, and it is built from sources
    obtained from http://userspace.selinuxproject.org/releases/current/devel/

This package was debianized by Russell Coker <russell@coker.com.au> on
Fri, 20 Aug 2004 17:26:18 +1000.
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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.391 spring-boot-json-starter 2.1.4.RELEASE
1.391.1 Available under license:

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1.392 libasyncns 219-62.el7_6.6

1.392.1 Available under license:

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1.396 rename 0.20-3

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1.398 eclipse-core-jobs 3.5.100

1.399 spring-testcontext-framework

5.1.8.RELEASE

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1.400 apr-util 1.5.4

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Used By: XSLTC component of xml-xalan/java

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If such an object file uses only numerical parameters, data
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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
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Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the
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1.415 findbugs-jsr305 3.0.2
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1.416 pth 2.0.7-23.el7

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```
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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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1.419 powermock-api-support 1.4.9

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1.433 kmod 18-3
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The textbook (containing a proof that the shuffle is uniformly random) is
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1.440 mapper-extras 7.2.0

1.441 setup 2.8.71 10.el7

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1.447 openjdk-jre 11.0.6u10

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1.452 spring-boot-actuator-autoconfigure

2.1.4

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1.453 libarchive-extract-perl 0.72-1

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INFO_LDAPMODIFY_ARG_DESCRIPTION_ASSURED_REPLICATION("Indicates that all operation requests should include the UnboundID-proprietary 'assured replication' request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided.")

Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.

INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request."). Indicates that all bind requests should include the
UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user."). Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.

INFO_LDAPMODIFY_ARG_DESCRIPTION_HARD_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it."). Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients.

INFO_LDAPMODIFY_ARG_DESCRIPTION_IGNORE_NO_USER_MOD("Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients."). Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN.

INFO_LDAPMODIFY_ARG_DESCRIPTION_NAME_WITH_ENTRY_UUID("Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN."). Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPMODIFY_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."). Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints.

INFO_LDAPMODIFY_ARG_DESCRIPTION_PASSWORD_VALIDATION_DETAILS("Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints."). Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).

INFO_LDAPMODIFY_ARG_DESCRIPTION_PURGE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should purge the current password from the entry (even if it would have otherwise been retired for a brief period of time."). Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.

INFO_LDAPMODIFY_ARG_DESCRIPTION_REPLICATION_REPAIR("Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology."). Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to
authenticate with their current password (in addition to the new password) for a brief period of time.

INFO_LDAPMODIFY_ARG_DESCRIPTION_RETIRE_CURRENT_PASSWORD(“Indicates that any modify operation that targets either the’[0]’ or’[1]’ attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.”), Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted. INFO_LDAPMODIFY_ARG_DESCRIPTION_SOFT_DELETE(“Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted.”), Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'. INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES(“Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.”), Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations. INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_REFERINT_UPDATES(“Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations.”), Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry. INFO_LDAPSEARCH_ARG_DESCRIPTION_ACCOUNT_USABLE(“Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry.”), Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded. INFO_LDAPSEARCH_ARG_DESCRIPTION_EXCLUDE_BRANCH(“Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded.”), Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR(“Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.”), Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_ATTR("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about
the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes.

Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_AUTHZID**("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry.

Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS**("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS**("Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED**("Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).

Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL**("Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE**("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

Indicates that all search requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS**("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.

Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS**("Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).

**INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED**("Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).

Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

**INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL**("Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.
INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."). Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_PERMIT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege."). Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned."). Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REJECT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege."). Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

INFO_LDAPSEARCH_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'."). Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_VIRTUAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.");

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INFO_SASL_DIGEST_MD5_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.

INFO_SASL_GSSAPI_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.

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<li>Stefan K&ouml;psell &lt;sk13@#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see &lt;a href="http://sourceforge.net/projects/jcf/"&gt;http://sourceforge.net/projects/jcf/&lt;/a&gt;.</li>
<li>Carmen Bastiaans &lt;cbastiaa@#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson &lt;tomasg@#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov &lt;euxx@#064;hotmail.com&gt; - optimisations for Blowfish, assistance with
PKCS12/keytool interoperability.

- Megan Woods &lt;meganwoods@sekurafile.com&gt; - initial implementation of ECIES.
- Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.
- Michael M.&amp;#252;hle &lt;michael#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.
- Michael Mansell &lt;me#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.
- Eike Recker &lt;eike.recker#064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.
- Chris Southern &lt;CSouthern#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.
- Sidney Markowitz &lt;sidney#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
- Chris Kerr &lt;ckerr#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages.
- Sidney Markowitz &lt;sidney#064;sidney.com&gt; - initial implementation of the three AES engines.
- Martin Petraschek &lt;e9526225#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Jess Garms &lt;jgarms@#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.
- Mike Bean &lt;mbean#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.
- Martin Petraschek &lt;e9526225#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Mike Bremford &lt;mike#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.
- Shankar Srinivasan &lt;ssr002#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.
- Stef Hoeben &lt;ilsestef#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.
- Klaudiuz Ciosk &lt;kciosk#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.
- Thomas Houtekier &lt;Thomas.Houtekier#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with BizTalk.
- Kazuo Furuya &lt;kfuruya@#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny &lt;jdnovotny#064;lbl.gov&gt; - initial work on the openSSL PEM processing.
- Joel Hockey &lt;joel.hockey#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.
- John Steenbruggen &lt;JohnS#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske &lt;justin#064;chapweske.com&gt; - ordering patch for Tiger message digest.
- John Seroch &lt;jsroch#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.
- Compliance of KeyUsage extension return value with security API.
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehner &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo@iacono#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Andre Wehnert &lt;aw5@mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Sebastian Claus &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolas Biezza &lt;nicolas.biezza@#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
<li>Jarek Gawor &lt;jarek.gawor@#064;mscs.anl.gov&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Brett Neumeier &lt;random@rnd.cx&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - fixing the clone problem with Macs in the clean room JCE.</li>
<li>Rick Zeldes &lt;rick.zeldes@#064;eds.com&gt; - initial code for CMS/SIMIME CompressedData.</li>
<li>Joe Cohen &lt;jcohen@forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong@ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Chris Long &lt;aclong@#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes@#064;izemail.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Kaiser Yang &lt;kaiseryang@#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec@#064;logicacmg.com&gt; - pattern patch to fix defect in DERBMPString.equals().
Justin Kolb &lt;jkolb#op64pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;klaus#064epqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMS\SignedData objects.

Mariusz Bandola &lt;mariusz.bandola#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime.

Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUUtil.

Ian Haywood &lt;ian#064haywood.bpa.nl&gt; - addition of getSignatureType to PGP\Signature.

Jonathan Edwards &lt;s34gull#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers#esat.kuleuven.ac.be&gt; - help with Ripemd320 implementation.

Peter Sylvester &lt;Peter.Sylvester#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmm#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralizedString, addition of settable signed object info to CMS\SignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer#cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGP\KeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim#064muirford.com&gt; - patch to PGP\SecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler#064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph#064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyn#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMS\SignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva#064wedoconsulting.com&gt; - patch to fix overead issue in
Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill &lt;cargill#064profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;C.Breitenstrom#064t-systems.com&gt; - patches to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti#064cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;nscendoni#064bapelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skyttä &lt;ville.skytta#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;alamoline#064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;Carlos#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javi#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;joni.hahkala#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, iftAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.egee.org">EGEE project</a> for making the work available.

Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin#064uber.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka &lt;ymnk#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier#064freenet.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.
Andrew Paterson &lt;andrew.paterson@burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064nux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Łukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;tu-vi cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;lbugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;Brian O'Rourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;David Josse@064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrmctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jürg Eichhorn &lt;j.eichhorn@ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@64t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name type for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@64tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz@64gmai.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@64gmai.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@64yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;pasi.eronen@64nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;m.ivanova@64gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin Haumlberling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;m.schilder@64google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@64brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@64cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@64gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@64frankcormelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;r.joaquim@64cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@64allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@64mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies &lt;juliusdavies#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g&#064;064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&auml;iu{umlaut}bler &lt;olga.kaiu{umlaut}bler#064hjjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&uuml;aund&iacute;ria Mar&iacute;iu{umlaut}te &lt;numaa#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;stjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pnkopp#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;gwozdzjui#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMAC.

Tal Yacobi &lt;tal.yacobi#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.

Gabriele Contini &lt;gcontini#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.

Roelof Naude &lt;roelof.naude#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of new provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larra&ntilde;aga &lt;ilarra#064s21sec.com&gt; - fix to default partial packet generation in

Open Source Used In Cisco Auto Inline Retuner 2.0.14196
BCPGOutputStream.<li>
Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ew.de&gt; port for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bounceycastle_pfitz@064fitpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCSstrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@kimmeringer.de&gt; verbose mode for ASN1Dump, support for DEREternal, DNS performance fix for SMIME API.</li>
<li>Richard Farr &lt;rfarr.se@064gmail.com&gt; initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r73lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gm.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrawat@064yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;lindemann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-421].</li>
<li>Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivaneck &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilaring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492)
Wayne Grant &lt;waynedgrant#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;bob.mcgoo#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nesche#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo#064unimaticaspait&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;j.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten#064hp-consulting.com&gt; fine tuning of code for DHPARAMeters validation.

Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking#064keynectis.com&gt; initial cut of EAC classes.

Tim Buku &lt;tbuktu#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz#064ng.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov#bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#064WPECGLtYbVi8Rl6Y7Vz2Lvd2EUVW99v3yNV31WROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay &lt;phil_b@yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bc@bc4carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeySpecFactory.

Samuel Lidè deacuteut:orell &lt;samuel@064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to Bcrypt/OpenBSDCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;st5555d@064gmail.com&gt; initial cut of DVCS classes.

Damiain Kolasa &lt;fatfreddy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio@064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@064gmail.com&gt; fix to intOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86@064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;gt&gt; further work on completing gradle build.
Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.
Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.
Alex Klyubin &lt;klyubin@644google.com&gt; AlgorithmParameters check for EC key agreement.
Jonathan Gillett &lt;gsoc.student@64gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter &lt;andreas.reiter@64iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller &lt;kieran.miller@64gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli &lt;ehli@64arago.de&gt; Additional support for BSI plain ECDSA in the provider.
Daniel Heldt &lt;Daniel.Heldt@64cryptovision.com&gt; Initial support for encodable state message digests.
Robert Bushman &lt;bouncycastle@64traxel.com&gt; Clean up of DirectKeySignature example.
Maurice Aarts &lt;aarts@64riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.
KB Sriram &lt;mail_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze &lt;marco@64nightlabs.de&gt; Reported verification bug in GenericSigner.
Martin Schaeuf &lt;https://github.com/martinschaeuf&gt; contributed a code-cleanup patch.
dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich &lt;tosions.wich@64ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens &lt;hauke@64hauke-m.de&gt; TLS patch to add ECDHE-ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman &lt;dmz@64galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitza &lt;jkapitza@64schwarz-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund &lt;joh@64primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.
nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch &lt;axel-vdb@64riseup.net&gt; Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.
Derek Atkins &lt;derek@64ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky &lt;peto@64halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.
lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.
Thomas Belot &lt;thomas.belot+BC@64gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Schumann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
Michael &lt;MSKnete@64web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for
Tobias Wagner &lt;tobias.wagner&#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro&#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBESecrets that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSMessageDigestParser.
Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen+bouncycastle&#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer&#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles&#064opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;nfink95&#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff&#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lkasz.deputat&#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.

Andr&eacute;acute; Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpis.

Slawomir Jaranowski &lt;https://github.com/slaweckjaronowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;naegle&#064604gierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAParameterKey.

Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storozhs72&#064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis&#064elmhodges.com&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for...
McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt;; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt;: code cleanups for CMSSignedDataParser,
BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@tum.de&gt;: Initial XMSS/XMSS-MT
implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt;: test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt;: initial implementation of GOST3410-2012 for light
weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015,
addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storojs72@#064gmail.com&gt;: initial implementation of DSTU7564 (digest) and
DSTU7624 (cipher) and their associated modes.</li>
<li>Anders Glaser &lt;andreas.glaser@#064gi-de.com&gt;: patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt;: patch to correct OIDs used in public key digest parameters for
ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt;: patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt;: patch to allow GOST3410-94 private keys encoded as
integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt;: corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt;: fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt;: initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott@#064bitconsulting.com&gt;: performance fixes for CTRSP800DRBG.</li>
<li>David Srawn &lt;https://github.com/isomarcte&gt;: fix for off by one error in SCRYPHT bounds checking.</li>
<li>chrismcown &lt;https://github.com/chrismcown&gt;: identification of serialisation issue with
XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt;: offset patches for SM2 encryption and decryption,
improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt;: NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;andreas.glaser@#064gi-de.com&gt;: identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt;: fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt;: use of ShortBuffer exception and buffer size pre-check in
Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt;: Fix to make PGPUtility.pipeFileContents use buffer and not leak file
handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German
BSI TR-031111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt;: bringing PGPSecretKey.getUserIds() into line with
PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP
key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC
curves.</li>
<li>catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work
from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@#064gmail.com&gt;: identification and suggested fixes for possible timing vulnerability in
OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JounaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gillis95 &lt;https://github.com/Gillis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; JavaDoc fixes.

Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumISETEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.

Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Giltoniel&gt; Initial implementation of Blake2xs.

gaelalaire&lt;https://github.com/gaelalaire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospejt &lt;https://github.com/064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.
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1.466 commons-compiler 3.0.11

1.467 go-runewidth 0.0.8

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1.468 openssl 1.1.1d-0+deb10u3

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The End

1.469 compiler 0.9.3

1.470 spring-boot-starter-security 2.1.4

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1.478 libpod-readme-perl 0.11-1

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1.480 tomcat-embed-el 9.0.17

1.481 error-prone-annotations 2.0.18

1.482 compact-hashmap 1.2.1

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1.485 pam 1.1.8 3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian
Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
PAM_MODUTIL_DEF_PRIVS(privs);
+
+
/* Get the password entry */
+
pwd = pam_modutil_getpwnam (pamh, user);
+
if (pwd != NULL)
+
{
+
if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+
pam_syslog(pamh, LOG_ERR,
+
"Unable to change UID to %d temporarily\n",
+
pwd->pw_uid);
+
retval = PAM_SESSION_ERR;
+
goto finished;
+
}
+
+
if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+
goto finished;
+
if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+
goto finished;
+
+
if (stat(flag, &s) != 0)
+
{
+
display_file(pamh, "/etc/legal");
+
mkdir(dir, 0700);
+
f = open(flag, O_WRONLY|O_CREAT|O_EXCL,

Open Source Used In Cisco Auto Inline Retuner 2.0.14332


int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
{
    @ @ -116,6 +171,9 @@

    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    + return retval;
    }
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
{
    @ @ -116,6 +171,9 @@

    /* Display the updated motd */
    display_file(pamh, motd_path);

    + /* Display the legal disclaimer only if necessary */
    + retval = display_legal(pamh);
    + return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.486 guava 11.0.2

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1.487 swagger-models 1.5.20

1.488 woodstox 5.2.1

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1.489 spring-boot-starter-aop 2.1.4

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1.492 jackson-datatype-jdk8 2.9.9

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4 tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@

# Hurd-based GNU systems.

gnu

# The Hurd provides a rough superset of the functionality of 4.4 BSD.

-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile

diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions

diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h

diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxhdr.c b/sysdeps/unix/bsd/cmsg_nxhdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxhdr.c
rename to sysdeps/unix/bsd/cmsg_nxhdr.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c

diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
 # File nameCallerSyscall name# argsStrong nameWeak names
+
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-flock-flock2__flockflock
-getdents-getdirentslong__getdirentslonggetdirentslong
-getdtsz-getdtablesize0__getdtablesizegetdtablesize
-getpagesize-getpagesize0__getpagesizegetpagesize
-killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
-sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask

Open Source Used In Cisco Auto Inline Retuner 2.0.14488
diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+﻿#include <sysdeps/unix/bsd/wait3.c>

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Version 2.1, February 1999

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1.528 libmodule-pluggable-perl 5.1-1

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1.530 asm-analysis 7.0

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1.531 audit 2.8.4 4.el7

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1.536 options 1.4

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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries 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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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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## The Unicode Standard, Unicode Character Database, Version 10.0.0

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1.557 nss-util 3.36.0 1.1.el7_6

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```

1.566 bzip2 1.0.6 13.el7

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

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1.567 spring-cloud-starter-netflix-hystrix
2.1.2.RELEASE
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1.568 plugin-properties 2.0.3

1.569 elfutils 0.172 2.el7

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1.582 slf4j 1.7.23

1.583 spring-cloud-starter-netflix-hystrix 2.2.2

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1.584 liblog-message-simple-perl 0.10-2

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1.588 liblog-message-perl 0.8-1

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1.589 spring-cloud-context 2.1.2.RELEASE

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1.590 lang-painless 7.2.0

1.591 nailgun-server 0.9.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007.
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1.610 nettle 3.3 1+b2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- web-common_3_1.xsd
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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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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.

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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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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.

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uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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Version 3, 29 June 2007

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1.622 javassist 3.14.0-GA

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/**
 * An AccessException is thrown by an accessor if it has an unexpected problem.
 *
 * @author Andy Clement
 * @since 3.0
 */
@SuppressWarnings("serial")
public class AccessException extends Exception {

/**
 * Create an AccessException with a specific message.
 *
 * @param message the message
 *
 */
public AccessException(String message) {
    super(message);
}
/**
 * Create an AccessException with a specific message and cause.
 * @param message the message
 * @param cause the cause
 */
public AccessException(String message, Exception cause) {
    super(message, cause);
}
There may be exceptions to these general rules, see each file for precise information.

--------------------------------------------------------------
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1.631 netty-transport-native-unix-common

4.1.34.Final

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1.632 p11-kit 0.20.7 1

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1.636 go-flags 1.4.0

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1.639 yum 3.4.3 161.el7.centos

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """Return all notices."
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkgtup[0]
            arch = oldpkgtup[1]
            ret = []
+    other_arch_list = []
+    notices = set()
    for notice in self.get_notices(name):
        for upkg in notice['pkglist']:
            for pkg in upkg['packages']:
+                other_arch = False
                if pkg['name'] != name or pkg['arch'] != arch:
                    continue
-                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                    other_arch = True
+                else:
+                    continue
+                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                        pkg['version'], pkg['release'])
                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                    continue
-                ret.append((pkgtup, notice))
+                if other_arch:
+                    other_arch_list.append((pkgtup, notice))
+                else:
+                    ret.append((pkgtup, notice))
                    notices.add(notice)
+            for pkgtup, notice in other_arch_list:
+                if notice not in notices:
+                    ret.append((pkgtup, notice))
    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
    return ret
diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).
     
-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : '',
            'type' : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
            if elem:
                self._parse(elem)

+        self._repoid = repoid
+        self._vlogger = vlogger
+
        def __getitem__(self, item):
            """ Allows scriptable metadata access (ie: un['update_id']). """
            if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                # Tests to see if it's "the same data", which means that the
                # packages can be different (see add_notice).

+        def _rid(un):
+            if hasattr(un, '_repoid') and un._repoid is not None:
+                return un._repoid
+            else:
+                return '<unknown>'
+
+        def _log_failure(data):
+            """Log the mismatched data similarly to conflict markers in git."""
+            if self._vlogger is None:
+                return
+
+
+
+
+
+
+
+

msg = _('Duplicate of %s differs in some fields:\n')
msg %= other._md['update_id']
msg += '<<<<<<< %s:%s\n' % (_rid(other), data)
msg += '%r\n=======\n%r\n' % (other._md[data], self._md[data])
msg += '>>>>>>> %s:%s' % (_rid(self), data)
# --verbose mode enables this
self._vlogger.log(logginglevels.DEBUG_3, msg)
if not other or not hasattr(other, '_md'):
return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
if data == 'status': # FIXME: See below...
continue
if self._md[data] != other._md[data]:
+
_log_failure(data)
return False
# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
data = 'status'
if self._md[data] != other._md[data]:
if self._md[data] not in ('stable', 'testing'):
+
_log_failure(data)
return False
if other._md[data] not in ('stable', 'testing'):
+
_log_failure(data)
return False
# They are both really "stable" ...
self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
for event, elem in safe_iterparse(infile, logger=self._logger):
if elem.tag == 'update':
try:
un = UpdateNotice(elem)
+
un = UpdateNotice(elem, repoid, self._vlogger)
except UpdateNoticeException, e:
msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
_rid(repoid))
if not have_dup:
msg += _('\nYou should report this problem to the owner of the %srepository.') % _rid(repoid, "%s ")
+
msg += _('\nIf you are the owner, consider re-running the same command with --verbose to see the '
+
'exact data that caused the conflict.')
have_dup = True
if self._vlogger:

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self._vlogger.warn("%s", msg)

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The specification of DOM Level 3’s various parts is at:
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
``

``#endif
``

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QLogic Linux qlcnic NIC Driver

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bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/* 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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*
* M. Welsh, 6 July 1996
*
*
*/

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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/io/PathResource.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/ResolvableType.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/log/LogFormatUtils.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/cglib/core/ReflectUtils.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/convert/support/ConverterFactory.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/GenericTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/codec/Encoder.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/core/classreading/AnnotationMetadataReadingVisitor.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/framework/core/convert/support/GenericConversionService.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/framework/core/convert/support/StreamConverter.java
* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-jar/org/springframework/framework/core/convert/support/StreamConverter.java
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* /opt/ws_local/PERMITS_SQL/1033253092_1589862465.6/0/spring-core-5-2-5-release-sources-
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jar/org/springframework/cglib/SpringCglibInfo.java
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jar/org/springframework/core/convert/ConversionException.java
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// Original can be found at:
//   https://bitbucket.org/lindenlab/lisd
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// ES3/ES5 implementation of the Krhonos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[]) (The MIT License)

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```javascript
var valid = require('validate-npm-package-license');
...
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
SPDX expressions are valid, too ...

```javascript
... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);

...```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
```
validForNewPackages: true,
validForOldPackages: true,
inFile: 'LICENSE.txt'
}
);

assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
validForNewPackages: true,
validForOldPackages: true,
inFile: 'license.md'
}
);
);
```
```

If there aren't any licensing terms, use `UNLICENSED`:
```
```
```
```
```javascript
var unlicensed = {
validForNewPackages: true,
validForOldPackages: true,
unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
```

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# spdx-license-ids


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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```javascript

```npm install spdx-license-ids ```

```javascript
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```javascript
```

### require('spdx-license-ids/deprecated')

Type: `Array<string>`

Deprecated license IDs.

```javascript

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```javascript
```

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================

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1.680 opensaml-storage-api 3.3.0

1.681 jakarta-annotations-api 1.3.5
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1.693 pcre 8.39 9
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THE BASIC LIBRARY FUNCTIONS
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1.696 jsonschema2pojo-gradle-plugin 0.4.0

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package javax.activation;

import java.util.Map;
import java.util.WeakHashMap;

/**
 * The CommandMap class provides an interface to a registry of
 * command objects available in the system.
 * Developers are expected to either use the CommandMap
 * implementation included with this package (MailcapCommandMap) or
 * develop their own. Note that some of the methods in this class are
 * abstract.
 */

public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader,CommandMap> map =
    new WeakHashMap<ClassLoader,CommandMap>();

    /**
     * Get the default CommandMap.
     *
     * <ul>
* In cases where a CommandMap instance has been previously set to some value (via \texttt{setDefaultCommandMap()}) return the CommandMap.

* In cases where no CommandMap has been set, the CommandMap creates an instance of \texttt{MailcapCommandMap} and set that to the default, returning its value.

* @return the CommandMap

```java
public static synchronized CommandMap getDefaultCommandMap() {
    if (defaultCommandMap != null)
        return defaultCommandMap;
    // fetch per-thread-context-class-loader default
    ClassLoader tccl = SecuritySupport.getContextClassLoader();
    CommandMap def = map.get(tccl);
    if (def == null) {
        def = new MailcapCommandMap();
        map.put(tccl, def);
    }
    return def;
}
```

/**
 * Set the default CommandMap. Reset the CommandMap to the default by calling this method with \texttt{null}.
 *
 * @param commandMap The new default CommandMap.
 * @exception SecurityException if the caller doesn't have permission to change the default
 *
 */
```java
public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
    SecurityManager security = System.getSecurityManager();
    if (security != null) {
        try {
            // if it's ok with the SecurityManager, it's ok with me...
            security.checkSetFactory();
        } catch (SecurityException ex) {
            // otherwise, we also allow it if this code and the factory come from the same (non-system) class loader (e.g., the JAF classes were loaded with the applet classes).
            ClassLoader cl = CommandMap.class.getClassLoader();
            if (cl == null || cl.getParent() == null ||
                cl != commandMap.getClass().getClassLoader()) {
                throw ex;
            }
        }
    }
```
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo classes that represent the command Beans.
 */
abstract public CommandInfo[] getPreferredCommands(String mimeType);

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getPreferredCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds DataSource for the data
 * @return the CommandInfo classes that represent the command Beans.
 * @since JAF 1.1
 */
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
    return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>
The <code>DataSource</code> provides extra information, such as the file name, that a CommandMap implementation may use to further refine the list of commands that are returned. The implementation in this class simply calls the <code>getAllCommands</code> method that ignores this argument.

@throws IllegalArgumentException if the MIME type is not recognized.

@since JAF 1.1

public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
    return getAllCommands(mimeType);
}

/**
 * Get the default command corresponding to the MIME type.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @return the CommandInfo corresponding to the command.
 * @since JAF 1.1
 */
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
abstract public DataContentHandler createDataContentHandler(String mimeType);

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
 * by the implementation of the particular CommandMap. <p>
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the choice of DataContentHandler. The implementation
 * in this class simply calls the <code>createDataContentHandler</code>
 * method that ignores this argument.
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the DataContentHandler for the MIME type
 * @since JAF 1.1
 */
public DataContentHandler createDataContentHandler(String mimeType, DataSource ds) {
    return createDataContentHandler(mimeType);
}

/**
 * Get all the MIME types known to this command map.
 * If the command map doesn't support this operation,
 * null is returned.
 * @return array of MIME types as strings, or null if not supported
 * @since JAF 1.1
 */
public String[] getMimeTypes() {
    return null;
}
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Upstream source https://invisible-island.net/ncurses/ncurses.html
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.738 powermock-module-testng-common

1.4.9

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1.740 opensaml-security-api 3.3.0

1.741 stax 3.1.4

1.741.1 Available under license :

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- `org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
- `org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
- `org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
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- `org/apache/lucene/analysis/it/ItalianLightStemmer.java`
- `org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

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which can be obtained from

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use Software::LicenseUtils;
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  my @guess;
  try {
    my $hack = 'license : ' . $license_str;
    @guess = Software::LicenseUtils->guess_license_from_meta($hack);
  }
  return @guess;
```

---

Open Source Used In Cisco Auto Inline Retuner 2.0.16725
my @cpan_meta_spec_licence_name = qw(
    agpl_3
    apache_1_1
    apache_2_0
    artistic_1
    artistic_2
    bsd
    freebsd
    gfdl_1_2
    gfdl_1_3
    gpl_1
    gpl_2
    gpl_3
    lgpl_2_1
    lgpl_3_0
    mit
    mozilla_1_0
    mozilla_1_1
    openssl
    perl_5
    qpl_1_0
    ssleay
    sun
    zlib
);

foreach my $license_name (@cpan_meta_spec_licence_name) {
    my @guess = _hack_guess_license_from_meta($license_name);
    ok(@guess, "$license_name -> @guess");
}

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('artistic_2', 2) ],
    [ 'Software::License::Artistic_2_0' ],
);

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('gpl_3', 2) ],
    [ 'Software::License::GPL_3' ],
);

is_deeply(
    [ Software::LicenseUtils->guess_license_from_meta_key('gpl_3', 1) ],
    [ ],
);
done_testing;
#!perl
use Test::More tests => 2;
note 'Checking Changes';
my $changes_file = 'Changes';
my $newver = '0.103010';
my $trial_token = '-TRIAL';
SKIP: {
ok(-e $changes_file, "$changes_file file exists")
or skip 'Changes is missing', 1;
ok(_get_changes($newver), "$changes_file has content for $newver");
}
done_testing;
# _get_changes copied and adapted from Dist::Zilla::Plugin::Git::Commit
# by Jerome Quelin
sub _get_changes
{
my $newver = shift;
# parse changelog to find commit message
open(my $fh, '<', $changes_file) or die "cannot open $changes_file: $!";
my $changelog = join('', <$fh>);
close $fh;
my @content =
grep { /^$newver(?:$trial_token)?(?:\s+|$)/ ... /^\S/ } # from newver to un-indented
split /\n/, $changelog;
shift @content; # drop the version line
# drop unindented last line and trailing blank lines
pop @content while ( @content && $content[-1] =~ /^(?:\S|\s*$)/ );
# return number of non-blank lines
return scalar @content;
}

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use warnings;
use Test::More 0.88;
# This is a relatively nice way to avoid Test::NoWarnings breaking our
# expectations by adding extra tests, without using no_plan. It also helps
# avoid any other test module that feels introducing random tests, or even
# test plans, is a nice idea.
our $success = 0;
END { $success && done_testing; }
# List our own version used to generate this
my $v = "\nGenerated by Dist::Zilla::Plugin::ReportVersions::Tiny v1.10\n";
eval {
# no excuses!
# report our Perl details
my $want = '5.006';
$v .= "perl: $] (wanted $want) on $^O from $^X\n\n";
};
defined($@) and diag("$@");
# Now, our module version dependencies:
sub pmver {
my ($module, $wanted) = @_;
$wanted = " (want $wanted)";
my $pmver;
eval "require $module;";
if ($@) {
if ($@ =~ m/Can't locate .* in \@INC/) {
$pmver = 'module not found.';
} else {
diag("${module}: $@");
$pmver = 'died during require.';
}
} else {
my $version;
eval { $version = $module->VERSION; };
if ($@) {
diag("${module}: $@");
$pmver = 'died during VERSION check.';
} elsif (defined $version) {

Open Source Used In Cisco Auto Inline Retuner 2.0.16743


$pmver = "$version";
} else {
    $pmver = '<undef>';
}
}

# So, we should be good, right?
return sprintf('%-45s => %-10s%-15s%s', $module, $pmver, $wanted, "\n");
}

eval { $v .= pmver('Carp','any version') }

 eval { $v .= pmver('Data::Section','any version') }
 eval { $v .= pmver('ExtUtils::MakeMaker','6.30') }
 eval { $v .= pmver('File::Spec','any version') }
 eval { $v .= pmver('IO::Dir','any version') }
 eval { $v .= pmver('Module::Load','any version') }
 eval { $v .= pmver('Sub::Install','any version') }
 eval { $v .= pmver('Test::More','0.96') }
 eval { $v .= pmver('Text::Template','any version') }
 eval { $v .= pmver('Try::Tiny','any version') }
 eval { $v .= pmver('parent','any version') }
 eval { $v .= pmver('warnings','any version') }

# All done.
$v .= <<'EOT';

Thanks for using my code. I hope it works for you.
If not, please try and include this output in the bug report.
That will help me reproduce the issue and solve your problem.

EOT

diag($v);
ok(1, "we really didn't test anything, just reporting data");
$success = 1;

# Work around another nasty module on CPAN. :/
no warnings 'once';
$Template::Test::NO_FLUSH = 1;
exit 0;
#!perl
use strict;
use warnings;
use Test::More tests => 2;
use Software::License::BSD;
use Software::License::Mozilla_1_0;

# TEST
is (scalar(Software::License::BSD->url()),
   'http://opensource.org/licenses/BSD-3-Clause',
   "BSD->url() is OK."
);

# TEST
is (scalar(Software::License::Mozilla_1_0->url()),
   'http://www.mozilla.org/MPL/MPL-1.0.txt',
   "Mozilla_1_0->url() is OK."
);

# !perl
# This file was automatically generated by Dist::Zilla::Plugin::PodSyntaxTests.
use Test::More;
use Test::Pod 1.41;

all_pod_files_ok();
# This file was automatically generated by Dist::Zilla::Plugin::Manifest v5.014.
Changes
LICENSE
MANIFEST
META.json
META.yml
Makefile.PL
README
dist.ini
lib/Software/License.pm
lib/Software/License/AGPL_3.pm
lib/Software/License/Apache_1_1.pm
lib/Software/License/Apache_2_0.pm
lib/Software/License/Artistic_1_0.pm
lib/Software/License/Artistic_2_0.pm
lib/Software/License/BSD.pm
lib/Software/License/CC0_1_0.pm
lib/Software/License/Custom.pm
lib/Software/License/FreeBSD.pm
lib/Software/License/GFDL_1_2.pm
lib/Software/License/GFDL_1_3.pm
lib/Software/License/GPL_1.pm
lib/Software/License/GPL_2.pm
lib/Software/License/GPL_3.pm
lib/Software/License/LGPL_2_1.pm
lib/Software/License/LGPL_3_0.pm
lib/Software/License/MIT.pm
lib/Software/License/Mozilla_1_0.pm
lib/Software/License/Mozilla_1_1.pm
use strict;
use warnings;
use Test::More 0.88;

my @files = <lib/Software/License/*.pm>:

for my $module (@files) {
  # It's retired. Dunno if it's okay to be open_source. Punt!
  next if $module =~ /Sun.pm$/;

  my $pkg = $module;
  $pkg =~ s{^lib/}{};
  $pkg =~ s{.pm$}{};
  $pkg =~ s{/}{::}g;

  eval "require $pkg; 1";

  ok(defined $pkg-&gt;meta_name, "$pkg provide meta_name");
}

done_testing;

# This file was automatically generated by Dist::Zilla::Plugin::MakeMaker v5.014.
use strict;
use warnings;

use 5.006;

use ExtUtils::MakeMaker 6.30;

my %WriteMakefileArgs = (
    "ABSTRACT" => "packages that provide templated software licenses",
    "AUTHOR" => "Ricardo Signes <rjbs@cpan.org>",
    "BUILD_REQUIRES" => {}
);

my %FallbackPrereqs = (  
    "Carp" => 0,
    "Data::Section" => 0,
    "File::Spec" => 0,
    "IO::Dir" => 0,
    "Module::Load" => 0,
    "Sub::Install" => 0,
    "Text::Template" => 0,
    "parent" => 0,
    "strict" => 0,
    "warnings" => 0
);

my %PrereqPrereqs = (  
    "Carp" => 0,
    "Data::Section" => 0,
    "File::Spec" => 0,
    "IO::Dir" => 0,
    "Module::Load" => 0,
    "parent" => 0,
    "strict" => 0,
    "warnings" => 0
);

my %WriteMakefileArgs = (  
    "DISTNAME" => "Software-License",
    "EXE_FILES" => [],
    "LICENSE" => "perl",
    "NAME" => "Software::License",
    "PREREQ_PM" => {  
        "Carp" => 0,
        "Data::Section" => 0,
        "File::Spec" => 0,
        "IO::Dir" => 0,
        "Module::Load" => 0,
        "Sub::Install" => 0,
        "Text::Template" => 0,
        "parent" => 0,
        "strict" => 0,
        "warnings" => 0
    },
    "TEST_REQUIRES" => {  
        "Test::More" => "0.96",
        "Try::Tiny" => 0
    },
    "VERSION" => "0.103010",
    "test" => {  
        "TESTS" => "t/*.t"
    }
);

my %FallbackPrereqs = (  
    "Carp" => 0,
    "Data::Section" => 0,
    "File::Spec" => 0,
    "IO::Dir" => 0,
    "Module::Load" => 0,
unless ( eval { ExtUtils::MakeMaker->VERSION(6.63_03) } ) {
    delete $WriteMakefileArgs{TEST_REQUIRES};
    delete $WriteMakefileArgs{BUILD_REQUIRES};
    $WriteMakefileArgs{PREREQ_PM} = \%FallbackPrereqs;
}

delete $WriteMakefileArgs{CONFIGURE_REQUIRES}
unless eval { ExtUtils::MakeMaker->VERSION(6.52) };

WriteMakefile(%WriteMakefileArgs);
---
abstract: 'packages that provide templated software licenses'
author:
  - 'Ricardo Signes <rjbs@cpan.org>'
build_requires:
  Test::More: '0.96'
  Try::Tiny: '0'
configure_requires:
  ExtUtils::MakeMaker: '6.30'
dynamic_config: 0
generated_by: 'Dist::Zilla version 5.014, CPAN::Meta::Converter version 2.140640'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Software-License
requires:
  Carp: '0'
  Data::Section: '0'
  File::Spec: '0'
  IO::Dir: '0'
  Module::Load: '0'
  Sub::Install: '0'
  Text::Template: '0'
  parent: '0'
  perl: '5.006'
  strict: '0'
  warnings: '0'
resources:
bugtracker: https://github.com/rjbs/Software-License/issues
homepage: https://github.com/rjbs/Software-License
repository: https://github.com/rjbs/Software-License.git
version: '0.103010'
x_Dist_Zilla:
  perl:
    version: '5.019010'
plugins:
  - class: Dist::Zilla::Plugin::Git::GatherDir
    name: '@RJBS/Git::GatherDir'
    version: '2.020'
  - class: Dist::Zilla::Plugin::CheckPrereqsIndexed
    name: '@RJBS/CheckPrereqsIndexed'
    version: '0.011'
  - class: Dist::Zilla::Plugin::CheckExtraTests
    name: '@RJBS/CheckExtraTests'
    version: '0.021'
  - class: Dist::Zilla::Plugin::PromptIfStale
    config:
      Dist::Zilla::Plugin::PromptIfStale:
        check_all_plugins: 0
        check_all_prereqs: 0
        modules:
          - Dist::Zilla::PluginBundle::RJBS
            phase: build
            skip: []
            name: '@RJBS/RJBS-Outdated'
            version: '0.021'
  - class: Dist::Zilla::Plugin::PromptIfStale
    config:
      Dist::Zilla::Plugin::PromptIfStale:
        check_all_plugins: '1'
        check_all_prereqs: 0
        modules: []
        phase: release
        skip: []
        name: '@RJBS/CPAN-Outdated'
        version: '0.021'
  - class: Dist::Zilla::Plugin::PruneCruft
    name: '@RJBS/@Filter/PruneCruft'
    version: '5.014'
- class: Dist::Zilla::Plugin::ManifestSkip
  name: '@RJBS/@Filter/ManifestSkip'
  version: '5.014'

- class: Dist::Zilla::Plugin::MetaYAML
  name: '@RJBS/@Filter/MetaYAML'
  version: '5.014'

- class: Dist::Zilla::Plugin::License
  name: '@RJBS/@Filter/License'
  version: '5.014'

- class: Dist::Zilla::Plugin::Readme
  name: '@RJBS/@Filter/Readme'
  version: '5.014'

- class: Dist::Zilla::Plugin::ExecDir
  name: '@RJBS/@Filter/ExecDir'
  version: '5.014'

- class: Dist::Zilla::Plugin::ShareDir
  name: '@RJBS/@Filter/ShareDir'
  version: '5.014'

- class: Dist::Zilla::Plugin::Manifest
  name: '@RJBS/@Filter/Manifest'
  version: '5.014'

- class: Dist::Zilla::Plugin::TestRelease
  name: '@RJBS/@Filter/TestRelease'
  version: '5.014'

- class: Dist::Zilla::Plugin::ConfirmRelease
  name: '@RJBS/@Filter/ConfirmRelease'
  version: '5.014'

- class: Dist::Zilla::Plugin::UploadToCPAN
  name: '@RJBS/@Filter/UploadToCPAN'
  version: '5.014'

- class: Dist::Zilla::Plugin::MakeMaker
  config:
    Dist::Zilla::Role::TestRunner:
      default_jobs: 9
    name: '@RJBS/MakeMaker'
  version: '5.014'
finder:
- ':InstallModules'
- ':ExecFiles'

plugins:
  - class: Pod::Weaver::Plugin::EnsurePod5
    name: '@CorePrep/EnsurePod5'
    version: '4.006'
  - class: Pod::Weaver::Plugin::H1Nester
    name: '@CorePrep/H1Nester'
    version: '4.006'
  - class: Pod::Weaver::Plugin::SingleEncoding
    name: '@RJBS/SingleEncoding'
    version: '4.006'
  - class: Pod::Weaver::Section::Name
    name: '@RJBS/Name'
    version: '4.006'
  - class: Pod::Weaver::Section::Version
    name: '@RJBS/Version'
    version: '4.006'
  - class: Pod::Weaver::Section::Region
    name: '@RJBS/Prelude'
    version: '4.006'
  - class: Pod::Weaver::Section::Generic
    name: '@RJBS/Synopsis'
    version: '4.006'
  - class: Pod::Weaver::Section::Generic
    name: '@RJBS/Description'
    version: '4.006'
  - class: Pod::Weaver::Section::Generic
    name: '@RJBS/Overview'
    version: '4.006'
  - class: Pod::Weaver::Section::Generic
    name: '@RJBS/Stability'
    version: '4.006'
  - class: Pod::Weaver::Section::Collect
    name: Attributes
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<signature of Ty Coon>, 1 April 1989
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"name" : "Software-License",
"prereqs" : {
  "configure" : {
    "requires" : {
      "ExtUtils::MakeMaker" : "6.30"
    }
  },
  "develop" : {
    "requires" : {
      "Test::Pod" : "1.41",
      "version" : "0.9901"
    }
  },
  "runtime" : {
    "requires" : {
      "Carp" : "0",
      "Data::Section" : "0",
      "File::Spec" : "0",
      "IO::Dir" : "0",
      "Module::Load" : "0",
      "Sub::Install" : "0",
      "Text::Template" : "0",
      "parent" : "0",
      "perl" : "5.006",
      "strict" : "0",
      "warnings" : "0"
    }
  },
  "test" : {
    "requires" : {
      "Test::More" : "0.96",
      "Try::Tiny" : "0"
    }
  }
},
"release_status" : "stable",
"resources" : {
  "bugtracker" : {
    "web" : "https://github.com/rjbs/Software-License/issues"
  },
  "homepage" : "https://github.com/rjbs/Software-License",
  "repository" : {
    "type" : "git",
    "url" : "https://github.com/rjbs/Software-License.git",
    "web" : "https://github.com/rjbs/Software-License"
  }
},
"version" : "0.103010"
"x_Dist_Zilla" : {
    "perl" : {
        "version" : "5.019010"
    },
    "plugins" : [
        {
            "class" : "Dist::Zilla::Plugin::Git::GatherDir",
            "name" : "@RJBS/Git::GatherDir",
            "version" : "2.020"
        },
        {
            "class" : "Dist::Zilla::Plugin::CheckPrereqsIndexed",
            "name" : "@RJBS/CheckPrereqsIndexed",
            "version" : "0.011"
        },
        {
            "class" : "Dist::Zilla::Plugin::CheckExtraTests",
            "name" : "@RJBS/CheckExtraTests",
            "version" : "0.021"
        },
        {
            "class" : "Dist::Zilla::Plugin::PromptIfStale",
            "config" : {
                "Dist::Zilla::Plugin::PromptIfStale" : {
                    "check_all_plugins" : 0,
                    "check_all_prereqs" : 0,
                    "modules" : [
                        "Dist::Zilla::PluginBundle::RJBS"
                    ],
                    "phase" : "build",
                    "skip" : []
                }
            },
            "name" : "@RJBS/RJBS-Outdated",
            "version" : "0.021"
        },
        {
            "class" : "Dist::Zilla::Plugin::PromptIfStale",
            "config" : {
                "Dist::Zilla::Plugin::PromptIfStale" : {
                    "check_all_plugins" : 1",
                    "check_all_prereqs" : 0,
                    "modules" : [],
                    "phase" : "release",
                    "skip" : []
                }
            },
            "name" : "@RJBS/CPAN-Outdated",
            "version" : "0.021"
        }
    ]
}
"version": "0.021"
},
{
"class": "Dist::Zilla::Plugin::PruneCruft",
"name": "@RJBS/@Filter/PruneCruft",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::ManifestSkip",
"name": "@RJBS/@Filter/ManifestSkip",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::MetaYAML",
"name": "@RJBS/@Filter/MetaYAML",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::License",
"name": "@RJBS/@Filter/License",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::Readme",
"name": "@RJBS/@Filter/Readme",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::ExecDir",
"name": "@RJBS/@Filter/ExecDir",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::ShareDir",
"name": "@RJBS/@Filter/ShareDir",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::Manifest",
"name": "@RJBS/@Filter/Manifest",
"version": "5.014"
},
{
"class": "Dist::Zilla::Plugin::TestRelease",
"name": "@RJBS/@Filter/TestRelease",
"version": "5.014"
},

"class" : "Dist::Zilla::Plugin::ConfirmRelease",
"name" : "@RJBS/@Filter/ConfirmRelease",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::UploadToCPAN",
"name" : "@RJBS/@Filter/UploadToCPAN",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::MakeMaker",
"config" : {
  "Dist::Zilla::Role::TestRunner" : {
    "default_jobs" : 9
  }
},
"name" : "@RJBS/MakeMaker",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::AutoPrereqs",
"name" : "@RJBS/AutoPrereqs",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::Git::NextVersion",
"name" : "@RJBS/Git::NextVersion",
"version" : "2.020"
},
{
"class" : "Dist::Zilla::Plugin::PkgVersion",
"name" : "@RJBS/PkgVersion",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::MetaConfig",
"name" : "@RJBS/MetaConfig",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::MetaJSON",
"name" : "@RJBS/MetaJSON",
"version" : "5.014"
},
{
"class" : "Dist::Zilla::Plugin::NextRelease",
"name" : "@RJBS/NextRelease",
"version" : "5.014"
}
"name": "AllFiles",
"version": "5.014"
},
{
  "class": "Dist::Zilla::Plugin::FinderCode",
  "name": "NoFiles",
  "version": "5.014"
}
]

"zilla": {
  "class": "Dist::Zilla::Dist::Builder",
  "config": {
    "is_trial": "0"
  },
  "version": "5.014"
}
}

#!perl
use strict;
use warnings;
use Test::More tests => 5;

my $class = 'Software::License::Perl_5';
require_ok($class);

my $license = $class->new({ holder => 'X. Ample' });

is($license->holder, 'X. Ample', '(c) holder');
is($license->year, (localtime)[5]+1900, '(c) year');
like($license->name, qr/perl 5/i, "license name");
like($license->fulltext, qr/general public/i, "license text");

Revision history for Software-License

0.103010 2014-03-29 22:13:19-04:00 America/New_York
  - fix guess_license_from_pod's return on GPL licenses
    (thanks, Syohei YOSHIDA!)

0.103009 2014-02-20 22:19:45-05:00 America/New_York
  - Updated FSF mailing address in license text for GFDL versions 1.2,
    GPL versions 1 & 2, and LGPL 2.1

0.103008 2013-11-16 22:37:14 America/New_York
  - faster! thanks, charsbar!
  - add new_from_short_name to LicenseUtils for spdx.org-style
    short names; thanks, Dominique Dumont!
  - avoid double trailing dots in expanded licenses; thanks, Dave Rolsky!
- fix some errors in (3-clause) BSD license text
- the 2-clause BSD ("FreeBSD") license no longer incorrectly puts "FreeBSD" as the owner in the license full text

0.103007  2013-10-26 19:57:05 America/New_York
fix regex to allow guessing from meta things like perl_5 (thanks, Kevin Dawson!)

    replace 'use base' with 'use parent'

0.103006  2013-10-20 14:17:53 America/New_York
try harder to identify licenses from all installed License classes;
this is an @INC-scanning change, so be vigilant; thanks, David Golden!

0.103005  2012-12-08 16:15:30 America/New_York
add MPL 2.0 (thanks, Bernhard Amann)

0.103004  2011-11-02 21:44:26 America/New_York
update FSF's address

0.103003  2011-10-31 23:14:47 America/New_York
use more direct links to GFDL 1.2 and 1.3

0.103002  2011-06-01 22:34:06 America/New_York
add GFDL 1.3

0.103001  2011-04-28 07:20:39 America/New_York
re-import text of GPL 1 and 2 to get new FSF address (RT #67795)

0.103000  2011-03-31 22:31:03 America/New_York
improve method dependency chains (thanks, Flavio Poletti)

    add Custom license to stick the whole license in a file
    -- still probably a bit experimental -- thanks, Flavio Poletti

0.102341  2010-12-11 10:22:56 America/New_York
add note to Artistic 2 that it's GPL compatible

0.102340  2010-08-22 23:25:01 America/New_York
add PostgreSQL

0.102250  2010-08-13 09:54:29 America/New_York
alter the output of None to look a bit less repetitive (ABRAXXA)

0.101620  2010-06-11 19:14:03 America/New_York
LGPL_3_0 now includes GPL_3 in its fulltext (RT #47135)
"None" should be "restrictive" on 1.4, not "restricted"

Artistic licenses' meta2_name should not have a trailing _0

added the meta2_name method for META.json files in schema v2

added the None and CC0_1_0 licenses for the far ends of the spectrum
(thanks to Brian Phillips for None)

up the Test::More prereq

add meta_name to almost all remaining licenses, and add a test

add meta_name to Artistic 2 (thanks, Bernardo Rechea)

added guess_license_from_meta which is both JSON and YAML compatible
(BRICAS)

clarify references to Perl in Perl_5 license
rename things that were YAML-specific to just be "meta"

add url methods where they were missing (Shlomi Fish)

add repo loc to metadata

fix behavior when guessing multiple items from meta.yml
(RT #36805, thanks bricas!)

fix detection of the various GNU licences

refactor inline template logic out to Data::Section

add meta_yaml_name method
0.004  2008-04-12
    documentation fixes

0.003  2008-04-11
    [CHANGES THAT WILL BREAK YOUR CODE]
    _from_pm is now _from_pod
    "guess" methods return a list

    [ENHANCEMENTS]
    guess_license_from_meta_yml (thanks, Brian Cassidy!)

0.002  2008-04-09
    added Software::LicenseUtils (by request)
    added ->url method to licenses
    fix POD for Mozilla 1.1
    add LGPL 3

0.001  2008-03-18
    minor packaging fixes

0.000  2008-03-18
    pre-release for public evaluation
name    = Software-License
author  = Ricardo Signes <rjbs@cpan.org>
license = Perl_5
copyright_holder = Ricardo Signes

[@RJBS]
#!perl
use strict;
use warnings;
use Test::More tests => 6;

my $class = 'Software::LicenseUtils';
require_ok($class);

my $license = $class->new_from_short_name(
    short_name => 'GPL-1',
    holder     => 'X. Ample'
);

is($license->holder, 'X. Ample', '(c) holder');
is($license->year, (localtime)[5]+1900, '(c) year');
isa_ok($license,'Software::License::GPL_1',"license class");
like($license->name, qr/version 1/i, "license name");
like($license->fulltext, qr/general public/i, 'license text');
#!perl
use strict;
use warnings;

use Test::More;

use Software::License::Custom;

my $slc = Software::License::Custom->new(
    holder => 'A. U. Thor',
    year   => 1972,
    filename => 't/custom-license'
);
isa_ok($slc, 'Software::License');

is($slc->name, 'The Foo-Bar License', 'name');
is($slc->url, 'http://www.example.com/foo-bar.txt', 'url');
is($slc->meta_name, 'foo_bar_meta', 'meta_name');
is($slc->meta2_name, 'foo_bar_meta2', 'meta2_name');
is($slc->notice, <<'END_OF_NOTICE', 'notice');
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This is free software, licensed under The Foo-Bar License.
END_OF_NOTICE
is($slc->license, <<'END_OF_LICENSE', 'license');
    The Foo-Bar License

Well... this is only some sample text. I'm true... only sample text!!!

Yes, spanning more lines and more paragraphs.
END_OF_LICENSE
is($slc->fulltext, <<'END_OF_FULLTEXT', 'fulltext');
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    The Foo-Bar License

Well... this is only some sample text. I'm true... only sample text!!!

Yes, spanning more lines and more paragraphs.
END_OF_FULLTEXT

done_testing;
1.779 openjdk 11.0.6

1.779.1 Available under license:

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* 
* Xlib Extension-Writing Utilities
* 
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lap.pod
mpi-test.pod
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1.781 jackson-datatype-jdk8 2.10.3

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1.789 bash 4.4.18 2ubuntu1.2

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1.794 jackson-module-afterburner 2.10.3

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1.795 python-defaults 2.7.9 1

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Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.799 e2fsprogs 1.44.1-1ubuntu1.3

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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 ** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/
From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSIDL_LIB_VERSION = 1.0
# BSIDL_LIB_IMAGE = libce
# BSIDL_LIB_MYDIR = et
# BSIDL_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSIDL_IMAGE).so.$(BSIDL_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.803 cracklib 2.9.0-11.el7

1.803.1 Available under license :

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunk.y.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id I91Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtpt (Exim 4.50)
    id 1hcOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
    Mime-Version: 1.0 (Apple Message framework v752.2)
    In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
    References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
    Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
    Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
    Content-Transfer-Encoding: 7bit
    From: Alec Muffett <alecm@crypticide.com>
    Subject: Re: cracklib license
    Date: Mon, 1 Oct 2007 17:59:46 +0100
    To: Nathan Neulinger <nneul@neulinger.org>
    X-Mailer: Apple Mail (2.752.2)
    X-Originating-Rutherford-IP: [82.68.43.14]
    Return-Path: alecm@crypticide.com
    X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
    Status: RO
    Content-Length: 585
    Lines: 21

> 
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
effectively.
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as
published by the Free Software Foundation; either version 2.1 of the
License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as
/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helod=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
id I1cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCCD74E235CEF4F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd8071010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E6F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> >-------- Forwarded message --------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license

Open Source Used In Cisco Auto Inline Retuner 2.0.17079
To: alecm@crypto.dircon.co.uk

Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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- [POI](http://poi.apache.org/) - Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)
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- src/main/org/codehaus/groovy/jsr223/GroovyCompiledScript.java
- src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.807 xalan 2.7.2

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Joseph Reagle <mailto:site-policy@w3.org>
Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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1.813 ribbon-loadbalancer 2.3.0

1.814 libalgorithm-c3-perl 0.09-1
1.814.1 Available under license :
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Upstream-Name: Algorithm-C3
Upstream-Contact: Stevan Little, <stevan@iinteractive.com>, Brandon L. Black <blblack@gmail.com>, Florian Ragwitz <rafl@debian.org>
Source: https://metacpan.org/release/Algorithm-C3
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1.815 spring-cloud-context 2.1.2

1.816 jzlib 1.1.3
1.816.1 Available under license:
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1.817 opensaml-saml-api 3.3.0

1.818 device-mapper-multipath 0.4.9 123.el7
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1.821 asm-analysis 6.2.1

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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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Logging

Lucene

Lucene.Net

Lucy

Mahout

ManifoldCF

Marmotta

Maven

Java project management and comprehension tools

MVC

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MRUnit

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Nutch

Network Application

OData protocol libraries

OAuth protocol implementation in Java

OData protocol libraries

Omicron

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Open Source Web Search Software

Orchestration Director Engine: Business Process Management (BPM), Process Orchestration and Workflow through service composition.

Open for Business: enterprise automation software

OASIS OData protocol libraries

OAuth protocol implementation in Java

Development and maintenance of a set of Google Guice extensions

Development and maintenance of a set of Google Guice extensions

Object Oriented Data Technology (middleware metadata)

Object Oriented Data Technology (middleware metadata)

A workflow scheduler system to manage Apache Hadoop jobs.

Open Climate Workbench

OpenJPA: Object Relational Mapping for Java

OpenMeetings: Web-Conferencing and real-time collaboration

OpenNLP

OpenNLP

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Portals

Qpid

Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)
Open Source Used In Cisco Auto Inline Retuner 2.0.17563

- Rave
- River
- Roller
- Santuario
- ServiceMix
- Shindig
- Shiro
- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- Stanbol
- STeVe
- Storm
- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Traffic Server
- Turbine
- Tuscany
- UIMA
- VCL
Open Source Used In Cisco Auto Inline Retuner 2.0.17564

- Velocity
- VXQuery
- Web Services
- Whirr
- Wicket
- Wink
- Wookie
- Xalan
- Xerces
- XMLBeans
- XML Graphics
- ZooKeeper

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1.837 opensaml-xmlsec-api 3.3.0
1.838 debian-archive-keyring 2019.1

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Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch"&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class. </li>
Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA. </li>
Jörg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression. </li>
Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests. </li>
Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream. </li>
John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest. </li>
Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer. </li>
Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests. </li>
Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher. </li>
Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting. 

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Pasi Eronen &lt;pasi.eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</p>


Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</p>

Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</p>

Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</p>

Xavier Le Vouch &lt;xavier&#064brettianysoftware.com&gt; - general code clean ups.</p>

Erik Tews &lt;e_tews&#0644cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</p>

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</p>

Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</p>

Rui Joaquim &lt;jrjoaquim&#064064cc.isel.ipl.pt&gt; - initial implementation of RSA binding for signatures.</p>

David Stacey &lt;DStacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</p>

Martijn Brinkers &lt;list&#064064mimtn.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</p>

Julius Davies &lt;juilisdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader.</p>

Matthias &lt;g&#064064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</p>

Olga K&auml;thler &lt;olga.kaethler&#064064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</p>

Germano Rizzo &lt;germano.rizzo&#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</p>

N&uuml;aacute;ria Mar&iacute; &lt;numaa&#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</p>

Janis Schuller &lt;js&#064064tzi.de&gt; - addition of NotationData packets for OpenPGP.</p>

Michael Samblanet &lt;mike&#064064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</p>

Mike StJohns &lt;mstjohns&#064064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</p>

Ramon Keller &lt;ramon.keller&#064064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</p>

Mark Nelson &lt;mark&#064064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</p>

Eugene Golushkov &lt;eugene_gff&#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</p>

Julien Pasquier &lt;juilienpasquier&#064064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</p>

Peter Knopp &lt;pknopp&#064064mstg.de&gt; - fix for named curve recognition in ECGOST key generation.</p>

Jakub Gwozd &lt;jgwozdziu&#064064free.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</p>

Bartosz Malkowski &lt;bmalkow&#064064tigase.org&gt; - initial implementation of VMPC cipher.
VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;matavricknz#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck#064signatureen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;mlemaymd#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañaga &lt;ilarra#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer#064ewe.de&gt; - backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;RobertJ.Moore@#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bfitzpatrick_pfitz#064f Fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit#064gmail.com&gt; - subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.</li>
<li>Richard Farr &lt;r.farr.se#064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione&064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani#064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a&#064064gm.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat&#064064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann&#064064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home&#064064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_hcole&#064064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom&#064064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Mike &lt;emfau&#064064t-online.de&gt; workarounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Alex Artamonov &lt;alexart.home&#064gmail.com&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a&#064064gm.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat&#064064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann&#064064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

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Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_hcole&#064064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom&#064064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau&#064064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor&#064064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilarings &lt;markus&#064064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis&#064064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith&#064064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio&#064064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex&#064064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynegrant&#064064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info&#064064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan&#064064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoou&#064064binternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis&#064064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;n Hessche&#064064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf&#064064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa&#064064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo&#064064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis&#064064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;j.sikocinski&#064064gdz.com.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejew &lt;jhudolejew&#064064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten&#064064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden&#064064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev&#064064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking&#064064keynectis.com&gt; initial cut of EAC classes.
Tim Buktu &lt;tbuktu&#064;hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd&#064;gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak&#064;BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid&#064;tgngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz&#064;gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov&#064;bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr&#064;gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson&#064;quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj&#064;gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth&#064;WPECGLtYbVi8RI6Y7Vz12Lvd2EUVW99v3yNV3JWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny&#064;gmail.com&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for Aead.

Maarten Bodewes &lt;maarten.bodewes&#064;gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b&#064;yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc&#064;carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel&#064;primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner&#064;certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington&#064;orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad&#064;primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin&#064;xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;d5555d&#064;gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy&#064;gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes&#064;blueyonder.co.uk&gt; patches for supporting
PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for
PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;dev&#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in
PEM files. </li>
<li>Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenPGP and
RFC6637 support. </li>
<li>Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts.
Initial SM3 digest implementation, some related code cleanups, JavaDoc improvements for ASN.1 classes,
addition of NONEwithRSA to lightweight RSADigestSigner. </li>
<li>Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation
problems. </li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller&#06464age.de&gt; additional standard algorithm name lookups in
JcaPEMKeyConverter. </li>
<li>Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine. </li>
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC
SecretKeyFactory. </li>
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for
SRP6. </li>
<li>Andrey Utkin &lt;cindrhc&#06464age.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo
objects in provider classes. </li>
<li>Arnis Tartu &lt;arnis&amp;#064ut.ee&gt; checker for generated key vs OID in
JceCMSContentEncryptorBuilder. </li>
<li>AxelVDB &lt;axel-vdb&amp;#064riseup.net&gt; initial implementation of Shacal2. </li>
<li>Roberto Tyley &lt;&gt; further work on completing gradle build. </li>
<li>Waldemar Dick &lt;wdick&amp;#064devmue.de&gt; code improvement in x500 ASN.1 package. </li>
<li>Sid Steward &lt;sid.steward&amp;#064pdflabs.com&gt; code improvements to ASN1Boolean. </li>
<li>Alex Klyubin &lt;klyubin&amp;#064google.com&gt; AlgorithmParameters check for EC key agreement. </li>
<li>Jonathan Gillett &lt;gtosc.student&amp;#06464age.com&gt; Initial support for block cipher IVs in IESEngine, IES
MAC length check bug fix. </li>
<li>Andreas Reiter &lt;andreas.reiter&amp;#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify
processing in (D)TLS server, and provided fix. </li>
<li>Kieran Miller &lt;kieran.miller&amp;#064gmail.com&gt; initial implementation for RFC 5649 key wrap with
padding. </li>
<li>Oliver Ehl &lt;ehl&amp;#064arago.de&gt; Additional support for BSI plain ECDSA in the provider. </li>
<li>Daniel Heldt &lt;Daniel.Heldt&amp;#064cryptovision.com&gt; Initial support for encodable state message
digests. </li>
<li>Robert Bushman &lt;bouncycastle&amp;#064traxel.com&gt; Clean up of DirectKeySignature example. </li>
<li>Maurice Aarts &lt;aarts&amp;#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108. </li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup. </li>
<li>KB Sriram &lt;mail_kb&amp;#064yahoo.com&gt; testing for odd encodings for PGP User Attribute
Subpackets. </li>
<li>Marco Schulze &lt;marco&amp;#064nightlabs.de&gt; Reported verification bug in GenericSigner. </li>
<li>Martin Schaeff &lt;https://github.com/martinschaeff&gt; contributed a code-cleanup patch. </li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator
builders. </li>
<li>Tobias Wich &lt;tobias.wich&amp;#064esec.de&gt; Provided patch for TLS to work around servers sending
Supported Elliptic Curves extension unexpectedly. </li>
<li>Hauke Mehrtens &lt;hauke&amp;#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from

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RFC 7251.

- Daniel Zimmerman &lt;dmz@064galois.com&gt;: Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitza &lt;jkaps165@gmail.com&gt;: Iteratable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund &lt;johan@064primekey.se&gt;: Update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn &lt;https://github.com/nikosn&gt;: Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch &lt;axel-vdb@064riseup.net&gt;: Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.
- Derek Atkins &lt;derek@064ihtfp.com&gt;: Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky &lt;peter@064halicky.sk&gt;: Correction to notification/error message handling in SignedMailValidator.
- Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt;: Initial CertPathLoopTest for demonstrating stack overflow issue.
- Bjørn Kautler &lt;https://github.com/Vampire&gt;: Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schumann &lt;https://github.com/dschumann&gt;: Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael &lt;MSKnete@robotron.de&gt;: Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
- Tobias Wagner &lt;tobias.wagner@064n-design.de&gt;: Fix SecureRandom handling in BcAsymmetricKeyWrapper [BBA-536].
- Sergio Giro &lt;sgiro@064google.com&gt;: Fixed adding of additional stores from CRL distribution point [BBA-537]. Fixed missing null check for CRL certificate issuer [BBA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuette &lt;https://github.com/bschuette&gt;: Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonardo Dallot &lt;https://github.com/dallotTazTag&gt;: Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen &lt;j.w.janssen+bouncycastle@064lxtrang.nl&gt;: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt;: Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer &lt;kai.kramer@064gmail.com&gt;: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles &lt;benoit.charles@064opentrust.com&gt;: Fix for IES data length check on decryption.
- Niko &lt;nfink95@064gmail.com&gt;: Fix to cast issue in getOutputSize() for ECIES.
- akwizgran &lt;https://github.com/akwizgran&gt;: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff &lt;Matthias.Edelhoff@064cryptovision.com&gt;: BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat &lt;https://github.com/lukasz.deputat@064gmail.com&gt;: Fixed bugs in TlsUtils read methods [BBA-592].
- Justin Ludwig &lt;https://github.com/justinluwig&gt;: Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.
<li>André Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77@064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle@064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;girazoki@064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOBF mode.</li>
<li>Artem Storozhuk &lt;storozh72@064gmail.com&gt; N4 calculation fix to GOBF mode.</li>
<li>Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storozh72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPIT bounds checking.
chris mccown &lt;0xchrismccown&#064;gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().
Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.
Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.
Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd &lt;https://github.com/eki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.
Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.
catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.
fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.
Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.
Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.
sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.
Gillis95 &lt;https://github.com/Gillis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.
Antoine Toulixe &lt;https://github.com/atoulixe&gt; Initial implementation of EthereumIESEngine.
Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.
Moses Palm&amp;#xecute;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.
Ren&amp;#xecute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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.

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.

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
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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.
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6. As an exception to the Sections above, you may also combine or
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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
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user’s computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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### 1.861 spring-boot 2.1.6

### 1.862 spring-kafka 2.2.7

### 1.863 spring-kafka 2.2.5

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1.866 joda-time v2.10.2

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1.867 jackson-dataformat-cbor 2.8.11
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1.868 rxjava 1.2.0

1.869 bash 4.2.46 31.el7

1.869.1 Available under license:

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

]
] Subject: ksh scripts
] From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
] Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
] 9 May 95 10:39 PDT
] Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
] id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
] Date: Tue, 9 May 1995 13:36:54 -0400
] From: Chet Ramey <chet@odin.ins.cwru.edu>
] To: john@armory.com
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

Sure.  I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz.  There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away.  :-)
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
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 */

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#define UV_PLATFORM_FS_EVENT_FIELDS                                           
 uv__io_t event_watcher;                                                     

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
 int rcount;                                                                 
 int wcount;                                                                 

#define UV_HAVE_KQUEUE 1
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1.882 libmodule-build-perl 0.421000-2+deb8u1

1.882.1 Available under license :
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Contact: Module-Build mailing list <module-build@perl.org>
Source: https://metacpan.org/release/Module-Build
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use strict;
use lib 't/lib';
use MBTest;
use DistGen;

if (eval { require CPAN::Meta; CPAN::Meta->VERSION(2.142060) }) { plan('no_plan');
require CPAN::Meta::YAML;
require Parse::CPAN::Meta;
}
else {
plan(skip_all => 'No or old CPAN::Meta');
}

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#----------------------------------------------------------#
# Create test distribution
#----------------------------------------------------------#

{ my $dist = DistGen->new(
  name => 'Simple::Name',
  version => '0.01',
}
my $dist = $dist->new_from_context();
isa_ok( $dist, "Module::Build" );
is( $dist->license, 'perl',
"license 'perl' is valid"
);

my $meta = $dist->get_metadata( fatal => 0 );

is_deeply( $meta->[license] => [ 'perl_5' ], "META license will be 'perl'" );
is_deeply( $meta->[resources][license], [ "http://dev.perl.org/licenses/" ],
"META license URL is correct" );

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
"license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is_deeply( $meta->[license] => [ 'unrestricted' ], "META license will be 'unrestricted'" );
is_deeply( $meta->[resources][license], [ "http://example.com/vaporware/" ],
"META license URL is correct" );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
1.883 apache-log4j 1.2.17

1.883.1 Available under license:

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1.887 asynchronous-http-client-netty-utils

2.10.1

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix

`STATIC_O = ao`

## Compilation rules

```bash
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```bash
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$((SHELL)) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(.*)\.o[ :]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] | rm -f $@' 
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$((SHELL)) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/(.*)\.o[ :]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] | rm -f $@' 
```

## Versioned libraries rules

```bash
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
```

## Bind internal references

```bash
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

## Remove shared library 's'

`STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

## End BSD-specific setup
1.908 pcre 8.39 12

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PCRE LICENCE

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End

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---------

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THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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THE C++ WRAPPER FUNCTIONS
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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 compile 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.

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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:

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 from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.924 jackson-dataformat-yaml 2.8.11
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (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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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.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.
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.)

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:

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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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 materials to be 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(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 a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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
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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
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1.945 curl 7.58.0 2ubuntu3.8

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==============

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### 1.946 debconf 1.5.71

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1.947 lang-mustache-client 7.2.0

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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# 1.957 spring-testcontext-framework

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1.959  isc-dhcp  4.3.1-6+deb8u3  
1.959.1 Available under license :  

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.965 junit-jupiter-aggregator 5.5.2

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `\`src/lib/gssapi\``\, including the following files:

.. parsed-literal::
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
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- `lib/kdb/ipropx`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.k`
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# This program is intended to be used by "make check-copyright". It checks for violations of the coding standards related to copyright and license statements in source code comments.
import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/\*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)\*\* ( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Check a comment for boilerplate violations. Return true if the comment
    # is a license statement.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
# Strip out whitespace and comments contained within a line.
if not in_comment:
    line = re.sub(r'/\*.*?\*/', '', line)
line = line.strip()

if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())

is_license = check_comment(comment, fname, comment_starts_at,
                            code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != ':
    code_seen = True

ln += 1

for fname in sys.argv[1::]
    if fname.startswith('./'):
        fname = fname[2::]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

1.970 jackson-annotations 2.10.0.redhat-00001

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1008 jackson-json-processor 1.9.11

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1.1009 netty-handler 4.1.35

1.1010 lsb 9.20170808ubuntu1

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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1.1042 cdebconf 0.249

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1.1044 acl 2.2.52-2

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1.1053 nginx-module-geoip 1.16.0-r1

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries 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.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (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 a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.

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.)

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 compile 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:

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 from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

Open Source Used In Cisco Auto Inline Retuner 2.0.19205
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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
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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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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 a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.

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.)

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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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) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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 materials to be 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.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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@c Local Variables:
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
ehancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.
Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 3, 29 June 2007

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
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### 1.1071 pcre 8.32 17.el7

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*/

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#endif
#ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {

int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)(&(w)))) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? (_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.1073 jna 4.5.1

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/** Tagging interface to indicate the library or callback uses an alternate
 * calling convention.
 * @author twall
 */
public interface AltCallingConvention {}
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```plaintext
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
   Unix SMB/CIFS implementation.
   trivial database library - standalone version

   trivial database library - private includes
   -
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Theodore Ts'o
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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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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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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
Open Source Used In Cisco Auto Inline Retuner 2.0.19602

```
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ..$/$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$/$(BSD_LIB)
```

1.1094 spring-boot-test 2.1.4.RELEASE
1.1095 netty 4.1.34

1.1095.1 Available under license:

Apache License

Version 2.0, January 2004

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

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#+begin_quote
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1.1122 coreutils 8.28 1ubuntu1

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*/

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:: $(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Theodore Ts'o
23-June-2007

------------------------------------------------------------------

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>,
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Gadi Oxman, August 1995

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1.1132 dissect 7.2.0

1.1133 xmlunit-xmlunit-core 2.6.2
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1.1137 shadow 4.5 1ubuntu2

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    URL_ROOT:    './',
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<script type="text/javascript" src="_static/jquery.js"></script>
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```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/kdb/spnego/gssapiSpnego.h
lib/kdb/spnego/spnego_mech.c
```
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```
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   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
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```
src/lib/gssapi
```

including the following files:

- `gssapi_err_generic`
- `g_accept_sec_context`
- `g_acquire_cred`
- `g_canon_name`
- `g Mechglue`
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/kdb/kdb_log.h`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.kpropdlog.c`

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- lib/krb5/kadm5/kadm_host_srv_names.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
m = re.match(r'^\* ([^ \*]*)\(\- .*\)\^*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
    line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
        in_comment = False
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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### 1.1144 spring-boot-starter-json 2.1.6

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==================

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1.1161 zlib 1.2.11

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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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   */

1.1162 libsemanage 2.8 2
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1.1167 libdata-optlist-perl 0.109 1

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1.1178 byte-buddy-agent 1.9.12

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.1198 rank-eval-client 7.2.0

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1.1211 netty-reactive-streams 2.0.3
1.1212 adduser 3.118

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<sjp@cvfn.org> from sources written for the Debian Project by Ian
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1.1218 spring-data-mongodb 2.2.0.RELEASE

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1.1226 base-passwd 3.5.37

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1.1227 zlib 1.2.11 r1

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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) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) 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.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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 materials to be 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.

It may happen that this requirement contradicts the license
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1.1241 spring-boot-autoconfigure 2.1.6

1.1242 rootfiles 8.1 11.el7

1.1242.1 Available under license:

    Summary: The basic required files for the root user's directory
    Name: rootfiles
    Version: 8.1
    Release: 11{%{?dist}}
    License: Public Domain
    Group: System Environment/Base

    # This is a Red Hat maintained package which is specific to
    # our distribution. Thus the source is only available from
    # within this srpm.
    Source0: dot-bashrc
    Source1: dot-bash_profile
    Source2: dot-bash_logout
    Source3: dot-tcshrc
    Source4: dot-cshrc

    Buildroot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n
    BuildArch: noarch

    %description
    The rootfiles package contains basic required files that are placed
    in the root user's account. These files are basically the same
    as those in /etc/skel, which are placed in regular
    users' home directories.

    %prep

    %install
    rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/root

for file in %{SOURCE0} %{SOURCE1} %{SOURCE2} %{SOURCE3} %{SOURCE4} ; do
  f=`basename $file`
  install -p -m 644 $file $RPM_BUILD_ROOT/root/${f/dot-/}.
done

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%config(noreplace) /root/.[A-Za-z]*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Mar 30 2009 Ondrej Vasik <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash,
    related to #429406)
  - removed unset USERNAME from dot-bash_profile (synchronized with
    bash, related to #196735)

* Mon Mar 23 2009 Phil Knirsch <spknirsch@redhat.com> - 8.1-4
  - Added the "we-are-upstream" comments according to Fedora review (#226376)
  - Added -p option to install to preserve timestamps (#226376)

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Fri Oct 31 2008 Ondrej Vasik <ovasik@redhat.com> - 8.1-2
  - Add dist tag, fix a few rpmlint issues, rebuild due to
incorrect vendor (#451229)
- Added ncurses requirement(#469390)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
  - restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
  - sync files with current /etc/skel stuff
  - remove Xresources (#75666)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
  - rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
  - /sbin stuff out of PATH, moved into /etc/profile

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul 3 2000 Jakub Jelinek <jakub@redhat.com>
  - don't assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
- fix some path stuff (#11191)

* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
  - mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
  - add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Wed Oct  9 1998 Bill Nottingham <notting@redhat.com>
  - remove /root from %%files (it's in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
  - portability fix for .cshrc (problem #235)
  - change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
  - Removed .Xclients and .Xsession from package, added %%pre to back up old .Xclients if necessary.

1.1243 jackson-core 2.9.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.
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1.1244 gmp 6.0.0+dfsg-6

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1.1253 spring-kafka-test-support

2.2.7.RELEASE

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1.1259 util-linux 2.23.2-59.el7_6.1
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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1:    32   7648  0x83  
#2:    7680   8704  0xa5  
#5:   7936   4864  0x7  (freebsd)  
#6:  12544   3584  0x7  (freebsd)  

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Initialize empty image
f1c9645db1c4efdec7da32268f26eb bsd.img

Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2nd primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529eb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fs size bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

--------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

# start end size fstype [fsi ze bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
```

BSD disklabel command (m for help):
Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

1.1260 apache-log4j-to-slf4j-adapter 2.12.1

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The source package was downloaded from &lt;URL:http://expat.sourceforge.net&gt;.

The original packager is Adam Di Carlo &lt;aph@debian.org&gt;. The current 
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1.1262 mongo-java-driver 3.5.0

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
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  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters.javabean/PropertySorter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java
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jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/mapper/FieldAliasingMapper.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/NullPermission.java

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java

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  jar/com/thoughtworks/xstream/core/util/QuickWriter.java

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java
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jar/com/thoughtworks/xstream/converters/basic/StringConverter.java
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jar/com/thoughtworks/xstream/core/JVM.java
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jar/com/thoughtworks/xstream/core/util/Base64Encoder.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java

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  jar/com/thoughtworks/xstream/core/util/ArrayIterator.java

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  jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
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  jar/com/thoughtworks/xstream/core/ClassLoaderReference.java
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  jar/com/thoughtworks/xstream/converters/javabean/JavaBeanProvider.java
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  jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
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 */
/**
 * A SAX { @link org.xml.sax.XMLReader parser} that acts as an XStream
* [@link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ([@link
* #parse(java.lang.String) and (@link #parse(org.xml.sax.InputSource)) but relies on a proprietary SAX property
* [@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* [@link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of [@link org.xml.sax.XMLFilter filters] down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* </p>
* 
* @author Laurent Bihanic
* */
/**
 * Sets the value of a property.
 * <p>
 * The property name is any fully-qualified URI. It is
 * possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 * <p>
 * XMLReaders are not required to recognize setting any
 * specific property names, though a core set is provided with
 * SAX2.</p>
 * <p>
 * Some property values may be immutable or mutable only
 * in specific contexts, such as before, during, or after
 * a parse.</p>
 * <p>
 * This method is also the standard mechanism for setting
 * extended handlers.</p>
 * <p>
 * <strong>Note</strong>: This implementation only supports two
 * (proprietary) properties: [@link #CONFIGURED_XSTREAM_PROPERTY]
 * and [@link #SOURCE_OBJECT_LIST_PROPERTY].</p>
 *
 * @param name  the property name, which is a fully-qualified URI.
 * @param value the requested value for the property.
* @throws SAXNotRecognizedException when the XMLReader does not recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.
* @see #getProperty
*/

/**
 * Parses an XML document from a system identifier (URI).
 *  
 * This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:
 * <pre>
 *    parse(new InputSource(systemId));
 * </pre>
 * </blockquote>
 * If the system identifier is a URL, it must be fully resolved by the application before it is passed to the parser. </p>
 * <p>
 * <strong>Note</strong>: As a custom SAX parser, this class ignores the <code>systemId</code> argument of this method and relies on the proprietary SAX property to define the list of objects to serialize. </p>
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping another exception.
 * @see #parse(org.xml.sax.InputSource)
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java

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*/
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java
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   * /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
     jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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   * /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
     jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java
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   * /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
     jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java
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jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java
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* /opt/ws\_local/PERMITS\_SQL/1046386372\_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
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  jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
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  jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
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  jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java
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jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
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jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
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jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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  jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java

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  jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java

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  jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
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jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
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jar/com/thoughtworks/xstream/converters/collections/BitSetConverter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/io/AbstractReader.java
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  jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java
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  */opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java
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 * Created on 24. February 2016 by Joerg Schaible, factored out of ConversionException.
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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  jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/io/xml/QNameMap.java
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  jar/com/thoughtworks/xstream/io/xml/DomWriter.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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  jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java

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  jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java

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  jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
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  jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
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 * com.thoughtworks.xstream.converters.reflection.
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  jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java

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  jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java

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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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*/opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3.jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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  jar/com/thoughtworks/xstream/security/AnyTypePermission.java 
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/ForbiddenClassException.java 
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/NoTypePermission.java 
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/security/TypePermission.java 
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-l-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
  jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-
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* /opt/ws_local/PERMITS_SQL/1046386372_1590042020.79/0/xstream-1-4-11-1-sources-3-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
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under certain conditions; type `show c' for details.
@end example

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import java.lang.annotation.Retention;
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import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";
}
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1.1300 curl 7.38.0-4+deb8u15

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==============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

### 1.1301 lvm2 1.02.149-10.el7_6.7

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1.1307 libpcap 1.5.3-11.el7

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1.1308 xpp 1.1.3.4

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1.1309 perl 5.20.2-3+deb8u12
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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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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) 19xx 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.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
That's all there is to it!

#!/perl

=head1 NAME
copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ( $opt eq '--now' ) {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
} else

# Otherwise simply check that the two copyright dates match each other:

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b\d{4,}[^.\s]$/
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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<signature of Ty Coon>, 1 April 1989
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The End
---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generatedBy: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1316 libjpeg 6b

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==========================================
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====================================

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS  Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!
TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1317 jopt-simple 5.0.3
1.1317.1 Available under license:

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1.1318 spring-boot-starter 2.1.4

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========

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1.1330 spring-framework 5.1.6

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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/EurekaHttpClientFactory.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/ClusterResolverFactory.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/StaticClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/EurekaHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/util/SystemUtil.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/decorator/ServerStatusEvaluators.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/EurekaEndpoint.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/decorator/ServerStatusEvaluator.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/LegacyClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/decorator/RetryableEurekaHttpClient.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/aws/ZoneAffinityClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/ResolverUtils.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/EurekaHttpClients.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/util/ThresholdLevelsMetric.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/util/EurekaEntityFunctions.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/util/ExceptionsMetric.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/jersey/JerseyApplicationClient.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/dns/DnsServiceImpl.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/EurekaJsonJacksonCodec.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/EurekaJacksonXmlModifiers.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/ClusterResolver.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/serializer/ApplicationXmlDeserializer.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/serializer/InstanceInfoXmlBeanSerializer.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/mixin/InstanceInfoJsonMixIn.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/mixin/ApplicationsXmlMixIn.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/decorator/MetricsCollectingEurekaHttpClient.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/TransportException.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/transport/decorator/SessionedEurekaHttpClient.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/DnsClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/ReloadingClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/aws/DnsTxtRecordClusterResolver.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/resolver/ClusterResolverException.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/util/StringUtil.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/builder/ApplicationsJacksonBuilder.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/serializer/PortWrapperXmlDeserializer.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/mixin/PortWrapperXmlMixIn.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/mixin/ApplicationsJsonMixIn.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/builder/StringInterningAmazonInfoBuilder.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/builder/ApplicationsXmlJacksonBuilder.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/jackson/serializer/ApplicationsXmlBeanSerializer.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/EurekaInstanceConfig.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/Converters.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/DefaultEurekaClientConfig.java
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* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/provider/DiscoveryJerseyProvider.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/EntityBodyConverter.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/AbstractInstanceConfig.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Application.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/HealthCheckResource.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/LookupService.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/LeaseInfo.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/converters/Auto.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/MyDataCenterInstanceConfig.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/appinfo/CloudInstanceConfig.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Applications.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Pair.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Pair.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Pair.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Pair.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-jar/com/netflix/discovery/shared/Pair.java
jar/com/netflix/appinfo/DataCenterInfo.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/discovery/converters/JsonXStream.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/discovery/provider/ISerializer.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/discovery/DiscoveryClient.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/appinfo/PropertiesInstanceConfig.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/discovery/BackupRegistry.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/discovery/provider/Serializer.java
* /opt/ws_local/PERMITS_SQL/1046515870_1590122369.82/0/eureka-client-1-9-17-sources-
jar/com/netflix/appinfo/InstanceInfo.java

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:variable>

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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class javax.servlet:javax.servlet-api
class javax.servlet.jsp:javax.servlet.jsp-api

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org.apache.taglibs:taglibs-standard-spec
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.1383 spring-cloud-starter-netflix-ribbon

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1.1398 jackson-module-parameter-names

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1.1400 lang-tag 1.4.4

1.1401 sed 4.7 1

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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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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 a storage or distribution medium does not bring the other work under the scope of this License.

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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.

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.

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.)

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 compile 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.

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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 from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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END OF TERMS AND CONDITIONS

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

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.1405 netty-codec 4.1.34

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1.1406 kerberos-configs 2.3

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1.1412 spring-cloud-starter-netflix-archaius

2.2.2

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analysis/common/src/java/net/sf/snowball
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The KStem stemmer in
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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mecab-ipadic-2.7.0-20070801

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mecab-ko-dic-2.0.3-20170922

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.1418 open-feign-forms-extension-for-spring

3.8.0

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## -*.makefile-*-
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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Compiler switch to embed a runtime search path

```
LD_RPATH= 
LD_RPATH_PRE=-Wl,-rpath, 
```

## Compiler switch to embed a library name

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \ 
| sed \"s/(\$\n)\.o\[ :\]*/\1.o $@ : /g\" > $@; \ 
[ -s $@ ] || rm -f $@' 
%
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ 
| sed \"s/(\$\n)\.o\[ :\]*/\1.o $@ : /g\" > $@; \ 
[ -s $@ ] || rm -f $@' 
```

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1.1426 powermock-module-junit4 1.4.9

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1.1429 spring-framework 5.2.0

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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BSON library for Go

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Tomb - support for clean goroutine termination in Go.

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

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tomb - support for clean goroutine termination in Go.

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mgo - MongoDB driver for Go

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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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usage: minibz2 [-d] [{1,2,...9}] [[srcfilename] destfilename]
*/

1.1438 libxi 1.7.9-1.el7

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1.1439 eureka-client 1.9.12

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1.1444 util-linux 2.25.2-6

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266e2df055067c18f2ef9 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

---layout---------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout---------
Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout---------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  c      4096  20479   16384    8M unused       0     0   0
d     0 16064  16065   7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  a      4096   6144    2049  1M 4.2BSD       0     0   0
c      4096  20479   16384    8M unused       0     0   0
d     0 16064  16065   7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

| 0  | unused | 5  | 4.1BSD | 9  | 4.4LFS | d  | boot |
| 1  | swap   | 6  | Eighth Edition | a  | unknown | e  | ADOS |
| 2  | Version 6 | 7  | 4.2BSD | b  | HPFS    | f  | HFS  |
| 3  | Version 7 | 8  | MS-DOS  | c  | ISO-9660 | 10 | AdvFS |
| 4  | System V |

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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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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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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
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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
+ Copyright (C) Andrew Tridgell              1999-2005
+ Copyright (C) Jeremy Allison               2000-2006
+ Copyright (C) Paul 'Rusty' Russell         2000

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 Theodore Ts'o
 23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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1.1466 jnr-unixsocket 0.20

1.1467 joda-time 2.10.1

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1.1479 slf4j-log4j 1.7.26

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1.1480 spring-context 5.1.6

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 */

package org.springframework.core;

/**
 * Common interface for managing aliases. Serves as super-interface for
 * @link org.springframework.beans.factory.support.BeanDefinitionRegistry
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public interface AliasRegistry {

/**
 * Given a name, register an alias for it.
 * @param name the canonical name
 * @param alias the alias to be registered
 * @throws IllegalStateException if the alias is already in use
 * and may not be overridden
 */
void registerAlias(String name, String alias);

/**
 * Remove the specified alias from this registry.
 * @param alias the alias to remove
 * @throws IllegalStateException if no such alias was found
 */
void removeAlias(String alias);

/**
 * Determine whether this given name is defines as an alias
 * (as opposed to the name of an actually registered component).
 * @param name the name to check
 * @return whether the given name is an alias
 */
boolean isAlias(String name);

/**
 * Return the aliases for the given name, if defined.
 * @param name the name to check for aliases
 * @return the aliases, or an empty array if none
 */
String[] getAliases(String name);

}
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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.

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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.
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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
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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1.1487 python 2.7.5-77.el7_6

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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<th>Owner</th>
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| Version | Base    | Year | Organization | Open Source |Footnotes:

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
---------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
Asynchronous socket services

----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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---------------------------

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test_epoll
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Select kqueue
------------

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---------------

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-----

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------

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Other developers who have contributed code are:

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 */

package org.springframework.http.codec.multipart;

/**
 * Specialization of [@link Part} for a form field.
 * @author Rossen Stoyanchev
 * @since 5.0
 */
public interface FormFieldPart extends Part {

/**
 * Return the form field value.
 */
String value();

}

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</ol>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td>
<td valign="top" align="left">
Date:
</td></tr>
</table>
</p>

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<title>SQLite Copyright</title>
<style type="text/css">
body {
    margin: auto;
    font-family: Verdana, sans-serif;
    padding: 8px 1%;
}

a { color: #044a64 }
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.logo { position:absolute; margin:3px; }
.tagline {
    float:right;
    text-align:right;
    font-style:italic;
    width:300px;
    margin:12px;
    margin-top:58px;

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2.1.6

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1.1522 attr 2.4.48 4

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## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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Version 2.1, February 1999

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src/system-posix.c
src/system-w32.c
src/system-w32ce.c
src/system.c
src/w32-fd-t.inc.h
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class C {
  val x: ((Int, Int) => Int) = (((a, b)) => a)
  val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
  val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
}

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
 Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)

^ not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

^ not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^ three errors found

1.1553 byte-buddy 1.9.12

1.1554 hystrix-core 1.5.18

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\{ case (a, b) => ... }`
val x: ((Int, Int) => Int) = (((a, b)) => a)
^  
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Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... }`
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

^  

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.  
Note: Tuples cannot be directly destructured in method or function parameters.  
   Either create a single parameter accepting the Tuple3,  
   or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`  
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^  

three errors found  
Scala includes the jQuery library:  

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- javaee_web_services_client_1_3.xsd
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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# COPYING.other                                            -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------
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1.1593 glibc 2.17 260.el7_6.6

1.1593.1 Available under license:

commit ef7344f09e5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.
Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.

(fchflags): Likewise.
(revoke): Likewise.
(setlogin): Likewise.
(sigaltstack): Likewise.
(wait4): Likewise.
(sigblock): Remove.
(sigsetmask): Likewise.
(wait3): Likewise.
(waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socketadr.h: Move to ...
* sysdeps/unix/bsd/bits/socketadr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxhdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxhdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.
diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@

# Hurd-based GNU systems.
gnu

# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmgs_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmgs_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirentries4__getdirentriesgetdirentries
getdtsz-gettablesizetablesize0__gettablesizetablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecsигvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sys deps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
rename to sysdeps/unix/bsd/wait3.c

diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee77178b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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subsequent copies and derivative works made from that copy.

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

@item
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.

@item
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.

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.)

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.

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:

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.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
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.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
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@end enumerate

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 materials to be 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
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@subheading END OF TERMS AND CONDITIONS

@page
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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.

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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.

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
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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.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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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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1.1594 thrift 0.10.0

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compiler/cpp/src/generate/t_java_generator.cc
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   ghost@aladdin.com
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<table>
<thead>
<tr>
<th>Open Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle OpenJDK</td>
</tr>
</tbody>
</table>

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

| OW2 |

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

| Apache |

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

| MortBay |

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- org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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