Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

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1.767 spf13/cast acbeb36b902d72a7a4c18e8f3241075e7ab763e4
   1.767.1 Available under license
1.768 spf13/cobra 2df9a531813370438a4d79bfc33e21f58063ed87
   1.768.1 Available under license
1.769 spf13/jWalterWeatherman 0efa5202c04663c757d84f90f5219c1250baf94f
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1.770 spf13/pflag e57e3eeb33f795204c1ca35f56c44f83227c6e66
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1.771 spf13/viper 25b30aa063fc18e48662b86996252eabdcf2f0c7
   1.771.1 Available under license
1.772 spring-plugin-core 1.2.0.RELEASE
   1.772.1 Available under license
1.773 spring-plugin-metadata 1.2.0.RELEASE
   1.773.1 Available under license
1.774 spring-restdocs-mockmvc 2.0.2
   1.774.1 Available under license
1.775 springfox-core 2.6.1
   1.775.1 Available under license
1.776 springfox-schema 2.6.1
   1.776.1 Available under license
1.777 springfox-spi 2.6.1
   1.777.1 Available under license
1.778 springfox-spring-web 2.6.1
   1.778.1 Available under license
1.779 springfox-swagger-common 2.6.1
   1.779.1 Available under license
1.780 springfox-swagger2 2.7.0
   1.780.1 Available under license
1.781 sqlite3 3.27.2-3~bpo9+1
   1.781.1 Available under license
1.782 ssl_client 1.28.4-r3
   1.782.1 Available under license
1.783 startpar 0.59-3.1
   1.783.1 Available under license
1.784 streadway/amqp 8e4aba63da9fc5571e01c6a45dc809a58cbc5a68
   1.784.1 Available under license
1.785 streamrail/concurrent-map 8bf1e9baf65b10c81d0f4314cf2b1ebebf728b5
   1.785.1 Available under license
1.786 stretchr/objx 8736c1b47a3d18ae31c74d378cf54ef6d3276a4
   1.786.1 Available under license
1.787 stretchr/testify c679ae2cc0cb27ec3293fe9e254e47386f05d69
   1.787.1 Available under license
1.788 sudo 1.8.23 :4.el7
   1.788.1 Available under license
1.789 swagger-annotations 1.5.10
   1.789.1 Available under license
1.790 swagger-models 1.5.10
   1.790.1 Available under license
1.791 systemd 219 :67.el7_7.1
   1.791.1 Available under license
1.813.1 Available under license
1.814 util-linux 2.23.2 :61.el7
  1.814.1 Available under license
1.815 util-linux 2.29.2-1+deb9u1
  1.815.1 Available under license
1.816 util-linux 2.29.2 :1
  1.816.1 Available under license
1.817 uuid-dev 2.29.2-1+deb9u1
  1.817.1 Available under license
1.818 uuid-runtime 2.29.2-1+deb9u1
  1.818.1 Available under license
1.819 Vault 1.0.2
  1.819.1 Available under license
1.820 vim-minimal 7.4.629 :6.el7
1.821 virt-what 1.18 :4.el7
  1.821.1 Available under license
1.822 wget 1.18-5+deb9u2
  1.822.1 Available under license
1.823 which 2.20
  1.823.1 Available under license
1.824 x11-common 1:7.7+19
  1.824.1 Available under license
1.825 xfsprogs 4.5.0 :20.el7
  1.825.1 Available under license
1.826 xz-utils 5.2.2-1.2+b1
  1.826.1 Available under license
1.827 yajl 2.0.4 :4.el7
  1.827.1 Available under license
1.828 yarn 1.15.2
  1.828.1 Available under license
1.829 yhirose/go-peg 6c2fecdc135287a9f207c2568ba818ebca40fffd
  1.829.1 Available under license
1.830 yum 3.4.3 :163.el7.centos
  1.830.1 Available under license
1.831 yum-plugin-fastestmirror 1.1.31 :52.el7
1.832 yum-plugin-ovl 1.1.31 :52.el7
1.833 yum-utils 1.1.31 :52.el7
  1.833.1 Available under license
1.834 zlib 1.2.8.dfsg-5
1.1 acl 2.2.52 :3+b1

1.2 adal4j 1.0.0

1.3 adduser 3.115
1.3.1 Available under license:

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1.5 Alpine Linux Base Image 3.8.4 :docker
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1.6 alpine-base 3.9.2 :0

1.7 alpine-baselayout 3.1.0-r0

1.8 alpine-keys 2.1-r1

1.9 antchfx/xmlquery
f3845cf372319e5428e4c6704089452ddff8ef8b

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1.10 antchfx/xpath
58d12fe685d684ed55aab3b988394652025e36d
C

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1.11 apex/apex-go
338ee0137bc07a472789968021e66c5df905fc2
6

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1.12 apk-tools 2.10.1-r0

1.13 apt 1.4.9

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1.36 base-files 9.9+deb9u8

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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
link a “work that uses the Library” with the Library to produce a
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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) 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.

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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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From mikel@ora.com Tue Aug 1 12:13:20 1995
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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
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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 stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

--------
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
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:

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

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
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. :-)

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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 form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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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* 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 3a0982da308228d796df35f98d787c5cf2bb5b6.

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: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:stylesheet>
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1.46 bind-license 9.9.4 :72.el7

1.46.1 Available under license:

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8
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

- Fix automatic selinux boolean named_write_master_zones (#1569466)
- Allow starting named with randomly home again- Fix CVE-2018-5740- Fix compiler warnings- Refetch always records with TTL 0 (#1549130)- Detect and disable MD5 functions in FIPS 140-2 mode (#1519306)- Move change of dns_view_t to the end (#1452091)- Correct recursing file name (#1435883)
- Use python binary again, install all modules (#1510008)- Add rndc secroots and recursing output files into data (#1435883)- Backported negative trust anchors (#1452091)- Make named home writeable (#1569466)
- Change named shell to /bin/false- Resolves: #1510008 - add support for dnssec-keymgr- Fix CVE-2017-3145- Fix regression caused by bug #1470637- Support for additional signing algorithms in rndc (#1501531)
- New autogenerated rndc keys will use hmac-sha256 algorithm- Fix multilib regression in headers- Add with-tuning=large support (#rh1464850)- Fix named-chroot restart leak (#1503646)- Handle dig timeouts the same way as upstream (#1470637)- Do not use next search domain on timeout from dig (#1470637)- Fixed TSIG validation of AXFR and IXFR (#1470637)- Add missing manual for dnssec-importkey (#1470637)- Address deadlock between view.c and adb.c (#1416304)- Fix CVE-2017-3136 (ISC change 4575)
- Fix CVE-2017-3137 (ISC change 4575)- Simplify change of used config file, point to KB article (#1271315)- Make comment how to use different config file (#1271315)- Install again dns/dlz.h skipped in rebase
- Fixed coverity warnings on reenabled test dlzexternal- Backported new upstream dyndb interface, removed dynamic_db (#1393866)- Do not warn on WKS patch (#1392362)- Support WKS records in chroot- Fix CVE-2017-3143- Update root servers and trust anchor (#1452635)- Address deadlock between view.c and adb.c (#1416304)- Fix CVE-2017-3136 (ISC change 4575)
- Fix CVE-2017-3137 (ISC change 4575)- Simplify change of used config file, point to KB article (#1271315)- Make comment how to use different config file (#1271315)- Install again dns/dlz.h skipped in rebase
- Fixed coverity warnings on reenabled test dlzexternal- Backported new upstream dyndb interface, removed dynamic_db (#1393866)- Do not warn on WKS patch (#1392362)- Support WKS records in chroot- Fix CVE-2017-3135 (ISC change 4557)
- Fix CVE-2017-3137 (ISC change 4557)- Fix possible infinite loop in start_lookup (CVE-2016-2775)
- Do not change lib permissions in chroot (#1392531)- Fix CVE-2016-9131 (ISC change 4508)
- Fix CVE-2016-9147 (ISC change 4510)
- Fix regression introduced by CVE-2016-8864 (ISC change 4530)
- Fix CVE-2016-9444 (ISC change 4517)- Fix CVE-2016-8864- Fix CVE-2016-2776- Added automatic interface scan functionality (#1294506)
- Removed NetworkManager dispatcher script since it is not needed any more (#1294506)- Added GeoIP support (#1220594)- Added support for CAAs (#1306610)
- Use HTTPS URL instead of FTP for upstream sources (#1319280)- Fix excessive queries caused by DS chasing with stub zones when DNSSEC is not used (#1291185)
- Fix error in internal test suite (#1259514)
- Fix named-checkconf call in *-chroot.service files (#1278082)
- Fix SPF resource records check to comply with RFC7208 (#1223336)- Add version specific requires on bind for bind-pkcs11 (Related: #1097753)
- Resolve issues found by static analysis (Related: #1097753)- Added native PKCS#11 functionality (#1097753)- DNS resolution failure in high load environment with SERVFAIL and “out of memory/success” in the log (#1211180)- Install config for tmpfiles under %_tmpfilesdir] (#1180976)
- Fixed systemctl path in logrotate configuration (#1164264)
- remove information about system-config-bind from named.8 man page (#1152066)- Fix CVE-2015-1349- Fix CVE-2014-8500 (#1171976)- Fix error in dyndb API that can cause named to freeze on shutdown (#1142150)
- Fix error in triggerun scriptlet (#1143033)
- Remove /var/named/chroot/var/run on bind-chroot update if it is a directory (#1091341)- Add versioned requires on bind-libs to bind-utils and bind-sdb- Use /dev/urandom when generating rndc.key file (#1107568)
- Allow authentication using TSIG in allow-notify configuration statement (#1067424)
- Fix race condition when destroying a resolver fetch object (#1072379)
- Increase defaults for lwresd workers and make workers and client objects number configurable (#1098959)
- Configure BIND with --with-dlopen=yes to support dynamically loadable DLZ drivers (#1096688)- Mass rebuild 2014-01-24- Rebuild for mariadb-libs
Related: #1045013- Fix CVE-2014-0591- Build against libdb instead of libdb4 (#1044990)- Mass rebuild 2013-12-27- Fix crash in rbtodb after two successful getoriginnode() calls (#1044026)- Split chroot package for named and named-sdb
- Extract setting-up/destroying of chroot to a separate systemd service (#1004300)- Create symlink
/var/named/chroot/var/run -> /var/named/chroot/run (#1024384)
- Added session-keyfile statement into default named.conf since we use /run/named (#1024384)- Fixed memory leak in nssupdate if 'realm' was used multiple times (#1034824)- Install configuration for rwtab and fix chroot setup script (#1028189)
- use --enable-filter-aaaa when building bind to enable filter-aaaa-on-v4 option (#1025245)- Correct the patch for #1020683- Fix race condition on send buffers in dighost.c (#1020683)- Install isc/errno2result.h header (#1015165)- update to 9.9.4 (#1010200)
- drop merged patches
- modify patches to fit on new version- Fix [ISC-Bugs #34738] dns_journal_open() returns a pointer to stack- Don't generate rndc.key if there exists rndc.conf- don't install named-sdb.service if SDB macro is defined to zero- update to 9.9.3-P2 (fix for CVE-2013-4854)
- update RRL patch to 9.9.3-P2-rl.13207.22
- Fix script for setting up chroot so it unmounts everything successfully- Fix dates in Changelog- update to 9.9.3-P1 (fix for CVE-2013-3919)
- update RRL patch to 9.9.3-P1-rl.156.01- bump release to prevent update path issues- update to 9.9.3
- install dns/update.h header
- update RRL patch to the latest version 9.9.3-rl.150.20- Fix segfault in host/nslookup (#878139)- update to 9.9.3rc2
- part of bind97-exportlib.patch not needed any more
- bind-9.9.1-P2-multilib-conflict.patch modified to reflect latest source
- rl-9.9.3rc1.patch -> rl-9.9.3rc2.patch
- bind99-opts.patch merged- Include recursion Warning in named.conf and named.conf.sample (#740894)
- Include managed-keys-directory statement in named.conf.sample (#948026)- Fix zone2sqlite to quote table names when creating/dropping/inserting (#919417)- fix crash in nsupdate when processing ",r" parameter (#949544)- ship dns/r1h in -devel subpkg- update to 9.9.3rc1
- bind-96-libtool2.patch has been merged
- fix bind tmpfiles.d for named.pid /run migration (#920713)- New upstream patch version fixing CVE-2013-2266 (#928032)- move pidfile to /run/named/named.pid- Fix Makefile.in to include header added by rate limiting patch (#918330)- drop some developer-only documentation and move ARM to %docdir- Include rate limiting patch-Corrected IP addresses in named.ca (#901741)
- mount/umount /var/named in setup-named-chroot.sh as the last one (#904666)- generate /etc/rndc.key during named service startup if it doesn't exist
- increase startup timeout in systemd units to 90sec (default)
- fix IDN related statement in dig.1 manpage- update to bind-9.9.2-P1- document dig exit codes in manpage
- ignore empty "search" options in resolv.conf- drop PKCS11 support on rhel- install isc/stat.h- update to 9.9.2
- bind97-rh714049.patch has been dropped
- patches merged
- bind98-rh816164.patch- update to bind-9.9.1-P3- fixed SPEC file so it comply with new systemd-rpm macros guidelines (#850045)
- changed %define macros to %global and fixed several rpmlint warnings- Changed PrivateTmp to "false" in *-chroot.service unit files (#825869)- Fixed bind-devel multilib conflict (#478718)- Fixed bad path to systemctl in /etc/NetworkManager/dispatcher.d/13-named (#844047)
- Fixed path to libdh.so in config.dlz.in- update to 9.9.1-P2- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild- Avoid shell invocation and dep for -libs-lite %postun.- update to 9.9.1-P1 (CVE-2012-1667)- update to 9.9.1
- bind99-coverity.patch merged
- bind-9.5-overflow.patch merged- nslookup: return non-zero exit code when fail to get answer (#816164)-initscript: don't umount /var/named when didn't mount it- apply all non-SDB patches before SDB ones (#804475)
- enable Berkeley DB DLZ backend (#804478)- bind97-rh699951.patch is no longer needed (different fix is in 9.9.0)- remove unneeded bind99-v6only.patch- update to 9.9.0
- load dynamic DBs later (and update dyndb patch)
- fix memory leak in named during processing of rndc command
- don't call `rndc-config -a` in "post" section
- fix some packaging bugs in bind-chroot- build with "--enable-fixed-rrset"- update to 9.9.0rc2
- doc/rfc and doc/draft are no longer shipped in tarball- retire initscript in favour of systemd unit files (#719419)-update to 9.9.0rc1- ship dns/forward.h in -devel subpkg- update to 9.9.0b2 (CVE-2011-4313)
- patches merged
- bind97-rh700097.patch
- bind99-cinfo.patch- ship dns/clientinfo.h in bind-devel- update to 9.9.0b1
- bind98-dlz_buildfix.patch merged- nslookup failed to resolve name in certain cases- remove deps filter, it is no longer needed (#739663)- fix logrotate config file (#725256)- update to 9.8.1
- ship /etc/trusted-key.key (needed by dig)
- use select instead of epoll in export libfs (#735103)- fix DLZ related compilation issues
- make /etc/named.{root,iscdlv}.key world-readable
- add bind-libs versioned requires to bind pkg- fix rare race condition in request.c
- print "the working directory is not writable" as debug message
- re-add configtest target to initscript
- initscript: sybsys name is always named, not named-sdb
- nsupdate returned zero when target zone didn’t exist (#700097)
- nsupdate could have failed if server has multiple IPs and the first was unreachable (#714049)- update to 9.8.1rc1
- patches merged
  - bind97-rh674334.patch
  - bind97-cleanup.patch
  - bind98-includes.patch- improve patch for #725741- named could have crashed during reload when dyndb module is used (#725741)- update to 9.8.0-P4
  - bind98-libdns-export.patch merged- update the dyndb patch- fix compilation of libdns-export.so- update to 9.8.0-P2 (CVE-2011-1910)- update to 9.8.0-P1 (CVE-2011-1907)- rebuilt for mysql 5.5.10 (soname bump in libmysqldclient)- update to 9.8.0
  - bind97-rh665971.patch merged- revert previous change (integration with libnmserver)- integrate named with libnmserver library- include dns/rpz.h in -devel subpkg- update to 9.8.0rc1- update to 9.7.3
  - fix dig +trace on dualstack systems (#674334)
  - fix linkage order when building on system with older BIND (#665971)
- reduce number of gcc warnings- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild- update to 9.7.3rc1
  - bind97-krb5-self.patch merged- fix typo in initscript- fix "service named status" when used with named-sdb
  - don't check MD5, size and mtime of sysconfig/named- add new option DISABLE_ZONE_CHECKING to sysconfig/named- update to 9.7.3b1- initscript should terminate only the correct "named" process (CVE-2011-1907)- fix "krb5-self" update-policy rule processing- update to 9.7.2-P3- added tmpfiles.d support (#656550)
  - removed old PID checking in initscript- don't emit various informational messages by default (CVE-2011-1907)
  - added -export suffix to public libraries (-lite subpkg)- ship -devel subpkg for internal libs, dnsperf needs it- new bind-libs-lite and bind-lite-devel subpkgs which contain public version of BIND 9 libraries
  - don't ship devel files for internal version of BIND 9 libraries- update to 9.7.2-P2- update to 9.7.2- update to 9.7.2rc1- host: handle "debug", "attempts" and "timeout" options in resolv.conf well- update to 9.7.2b1
  - patches merged
    - bind97-rh507429.patch- supply root zone DNSKEY in default configuration- update to 9.7.1-P2 (CVE-2010-0213)- remove outdated Copyright.caching-nameserver file
    - remove rfc1912.txt, it is already located in %doc/rfc directory
    - move COPYRIGHT to the bind-libs subpkg
    - add COPYRIGHT to the -pkcs11 subpkg- update to 9.7.1-P1- update to 9.7.1
    - improve the "dnssec-conf" trigger- update to 9.7.1rc1
  - patches merged
    - bind97-keysdir.patch- update to 9.7.1b1
    - make /var/named/dynamic as a default directory for managed DNSSEC keys
    - add patch to get "managed-keys-directory" option working
  - patches merged
    - bind97-managed-keyfile.patch
    - bind97-rh554316.patch- update dnssec-conf Obsoletes/Provides- update to 9.7.0-P2- added lost patch for #554316 (occasional crash in keytable.c)- active query might be destroyed in resume_dslookup() which triggered REQUIRE failure (#507429)- install SDB related manpages only when build with SDB- update to 9.7.0-P1- bind-sdb now requires bind- add man-pages ldap2zone.1 zonetodb.1 zone2sqlite.1 named-sdb.8 (#525655)- fix multilib issue
- improve automatic DNSSEC reconfiguration trigger
- initscript now returns 2 in case that action doesn't exist (#523435)
- enable/disable chroot when bind-chroot is installed/uninstalled- update to 9.7.0 final- obsolete dnssec-conf
- automatically update configuration from old dnssec-conf based
- improve default configuration; enable DLV by default
- remove obsolete triggerpostun from bind-libs subpackage- update to 9.7.0rc2- initscript LSB related fixes
- revert the "DEBUG" feature (#510283), it causes too many problems (#545128)- update to 9.7.0rc1
- bind97-headers.patch merged
- update default configuration- update to 9.7.0b3- install isc/namespace.h header- update to 9.7.0b2- update to 9.7.0b1
- add bind-pkcs11 subpackage to support PKCS11 compatible keystores for DNSSEC
  keys- don't package named-bootconf utility, it is very outdated and unneeded- determine file size via `stat` instead of `ls` (#523682)- update to 9.7.0a3- improve chroot related documentation (#507795)
- add NetworkManager dispatcher script to reload named when network interface is activated/deactivated (#490275)
- don't set/unset named_write_master_zones SELinux boolean every time in initscript, modify it only when it's actually needed- update to 9.7.0a2
- merged patches
  - bind-96-db_unregister.patch
  - bind96-rh507469.patch- next attempt to fix the postun trigger (#520385)
  - remove obsolete bind-9.3.1rc1-fix_libbind_includedir.patch- rebuilt with new openssl- update the patch for dynamic loading of database backends- 9.6.1-P1 release (CVE-2009-0696)
- fix postun trigger (#513016, hopefully)- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild-
  remove useless bind-9.3.3rc2-rndckey.patch- fix broken symlinks in bind-libs (#509635)
- fix typos in /etc/sysconfig/named (#509650)
- add DEBUG option to /etc/sysconfig/named (#510283)- improved "chroot automount" patches (#504596)
- host should fail if specified server doesn't respond (#507469)- 9.6.1 release
- simplify chroot maintenance. Important files and directories are mounted into chroot (see /etc/sysconfig/named for more info, #504596)
- fix doc/named.conf.default perms- 9.6.1rc1 release- update the patch for dynamic loading of database backends
  - create %{_libdir}/bind directory
  - copy default named.conf to doc directory, shared with s-c-bind (atkac)- update the patch for dynamic loading of database backends
  - fix dns_db_unregister()
- useradd now takes "-N" instead of "-n" (atkac, #495726)
- print nicer error msg when zone file is actually a directory (atkac, #490837)- 9.6.1b1 release
- patches merged
  - bind-96-isc_header.patch
  - bind-95-rh469440.patch
  - bind-96-realloc.patch
  - bind9-fedora-0001.diff
  - use -version-number instead of -version-info libtool param- logrotate configuration file now points to /var/named/data/named.run by default (#489986)- fall back to insecure mode when no supported DNSSEC algorithm is found instead of SERVFAIL.
- don't fall back to non-EDNS0 queries when DO bit is set- enable DNSSEC only if it is enabled in sysconfig/dnsssec- add DNSSEC support to initscript, enabled it per default
- add requires dnsssec-conf- fire away libbind, it is now separate package- fixed some read buffer overflows
Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild- update the patch for dynamic loading of database backends
- include iterated_hash.h- rebuild for dependencies- rebuild against new openssl- 9.6.0-P1 release (CVE-2009-0025)- Happy new year
- 9.6.0 release- 9.6.0rc2 release
- bind-96-rh475120.patch merged- add patch for dynamic loading of database backends- allow to reuse address for non-random query-source ports (#475120)- 9.6.0rc1 release
- patches merged
- bind-9.2.0rc3-varrun.patch
- bind-95-sdlz-include.patch
- bind-96-libxml2.patch
- fixed rare use-after-free problem in host utility (#452060)
- enabled chase of DNSSEC signature chains in dig- improved sample config file (#473586)- reverted previous change, koji doesn't like it- build bind-chroot as noarch- updates due libtool 2.2.6
- don't pass -DLDAP_DEPRECATED to cpp, handle it directly in sources- make statistics http server working. patch backported from 9.6 HEAD- 9.6.0b1 release
- don't build ODBC and Berkeley DB DLZ drivers
- end of bind-chroot-admin script, copy config files to chroot manually
- /proc doesn't have to be mounted to chroot
- temporary use libbind from 9.5 series, noone has been released for 9.6 yet- dig/host: use only IPv4 addresses when -4 option is specified (#469440)- removed unneeded bind-9.4.1-ldap-api.patch- ship dns/[s,]dlz.h and isc/radix.h in bind-devel- removed bind-9.4.0-dnssec-directory.patch, it is wrong- 9.5.1b2 release
- patches merged
- bind95-rh454783.patch
- bind-9.5-edns.patch
- bind95-rh450995.patch
- bind95-rh457175.patch- IDN output strings didn't honour locale settings (#461409)- disable transfer stats on DLZ zones (#454783)- add forgotten patch for #457175
- build with -O2- static libraries are no longer supported
- IP acls weren't merged correctly (#457175)
- use fPIE on sparcv9/sparc64 (Dennis Gilmore)
- add sparc64 to list of 64bit arches in spec (Dennis Gilmore)- updated patches due new rpm (--fuzz=0 patch parameter)- use %patch0 for Patch0 (#455061)
- correct source address (#455118)- 9.5.1b1 release (CVE-2008-1447)
- dropped bind-9.5-recc-race.patch because upstream doesn't want it- update default named.conf statements (#452708)- some compat changes to fix building on RHEL4- fixed typo in %posttrans script- parse inner acls correctly (#450995)- removed dns-keygen utility in favour of rndc-confgen -a (#449287)
- some minor sample fixes (#449274)- updated to 9.5.0 final
- use getifaddrs to find available interfaces- make /var/run/named writable by named (#448277)
- fixed one non-utf8 file- fixes needed to pass package review (#225614)- bind-chroot now depends on bind (#446477)- updated to 9.5.0rc1
- merged patches
- bind-9.5-libcap.patch
- make binaries readable by others (#427826)- reverted "any" patch, upstream says not needed
- log EDNS failure only when we really switch to plain EDNS (#275091)
- detect configuration file better- addresses 0.0.0.0 and ::0 really match any (#275091, comment #28)- readded bind-9.5-libcap.patch
- added bind-9.5-recc-race.patch from F8 branch (#400461)- build Berkeley DB DLZ backend- 9.5.0b3 release
- dropped patches (upstream)
- bind-9.5-transfer-segv.patch
- bind-9.5-mudflap.patch
- bind-9.5.0-generate-xml.patch
- bind-9.5-libcap.patch- fixed named.conf.sample file (#437569)- fixed URLs- BuildRequires cleanup- rebuild without mudflap (#43159)- port named to use libcap library, enable threads (#433102)
- removed some unneeded Requires- removed conditional build with libefence (use -fmudflapth instead)
- fixed building of DLZ stuff (#432497)
- do not build Berkeley DB DLZ backend
- temporary build with --disable-linux-caps and without threads (#433102)
- update named.ca file to affect IPv6 changes in root zone- build with -D_GNU_SOURCE (#431734)
- improved fix for #253537, posttrans script is now used
- improved fix for #400461
- 9.5.0b2
- bind-9.3.2b1-PIE.patch replaced by bind-9.5-PIE.patch
- only named, named-sdb and lwresd are PIE
- bind-9.5-sdb.patch has been updated
- bind-9.5-libidn.patch has been updated
- bind-9.4.0-sdb-sqlite-bld.patch replaced by bind-9.5-sdb-sqlite-bld.patch
- removed bind-9.5-gssapi-header.patch (upstream)
- removed bind-9.5-CVE-2008-0122.patch (upstream)
- removed bind-9.2.2-nsl.patch
- improved sdb_tools Makefile.in- fixed segfault during sending notifies (#400461)
- rebuild with gcc 4.3 series- removed bind-9.3.2-pctl_set_dumpable.patch (upstream)
- allow parallel building of libdns library
- CVE-2008-0122- fixed initscript wait loop (#426382)
- removed dependency on policycoreutils and libselinux (#426515)- fixed regression caused by libidn2 patch (#426348)- fixed typo in post section (CVE-2007-6283)- removed obsoleted triggers
- CVE-2007-6283- added dst/gssapi.h to -devel subpackage (#419091)
- improved fix for (#417431)- fixed shutdown with iniscript when rndc doesn't work (#417431)
- fixed IDN patch (#412241)- 9.5.0b1 (#405281, #392491)- Rebuild for deps- build with -O0- bind-9.5-random_ports.patch was removed because upstream doesn't like it. query-source{,v6} options are sufficient (#391931)
- bind-chroot-admin called restorecon on /proc filesystem (#405281)- removed edns patch to keep compatibility with vanilla bind
- #275091, comment #20)- use system port selector instead ISC's (#391931)- removed statement from initscript which passes -D to named- 9.5.0a7
- dropped patches (upstream)
- bind-9.5-update.patch
- bind-9.5-pool_badfree.patch
- bind-9.5._res_errno.patch- added bind-sdb again, contains SDB modules and DLZ modules
- bind-9.3.1rc1-sdb.patch replaced by bind-9.5-sdb.patch- removed Requires: openldap, postgresql, mysql, db4, unixODBC
- new L.ROOT-SERVERS.NET address- completely disable DBUS- minor cleanup in bind-chroot-admin- fixed typo in iniscript- disabled DBUS (dhcdbus doesn't exist & #339191)- fixed missing va_end () functions (#336601)
- fixed memory leak when dbus initialization fails- corrected named.5 SDB statement (#326051)- added edns patch again (#275091)- removed bind-9.3.3-edns.patch patch (see #275091 for reasons)- build with O2
- removed "autotools" patch
- bugfixing in bind-chroot-admin (#279901)- bind-9.5-2119_revert.patch and bind-9.5-fix_h_errno.patch are obsoleted by upstream bind-9.5-res_errno.patch- fixed wrong resolver's dispatch pool cleanup (#275011, patch from tmraz@redhat.com)- initscript failure message is now printed correctly (#277981, Quentin Armitage (quentin armitage org uk)) - temporary revert ISC 2119 change and add "libbind_errno" patch (#254501) again- removed end dots from Summary sections (skasal@redhat.com)- fixed wrong file creation by autotools patch (skasal@redhat.com)- start using --disable-isc-spnego configure option- remove bind-9.5-spnego-memory_management.patch (source isn't compiled)- added new initscript option KEYTAB_FILE which specified where is located kerberos .keytab file for named service- obsolete temporary bind-9.5-spnego-memory_management.patch by bind-9.5-gssapictx-free.patch which conforms BIND coding standards (#251853)- dropped direct dependency to /etc/openldap/schema directory- changed hardcoded paths to macros- fired away code which configure LDAP server- named could crash with SRV record UPDATE (#251336)- disable 64bit dlz driver patch on alpha and ia64 (#251298)- remove wrong malloc functions from lib/dns/spnego.c (#251853)- changed licence from BSD-like to ISC- disabled named on all runlevels by default- minor next improvements on autotools patch- dig and host utilities now using libidn instead idnkit for IDN support- binutils/gcc bug rebuild (#249435)- updated to 9.5.0a6 which contains fixes for CVE-2007-2925 and CVE-2007-2926- fixed building on 64bits- integrated "autotools" patch for testing purposes (upstream will accept it in future, for easier building)- fixed DLZ drivers building on 64bit systems- fixed relation between logrotated and chroot-ed named- removed bind-sdb package (default named has compiled SDB backend now)- integrated DLZ (Dynamically loadable zones) drivers- integrated GSS-TSIG support (RFC 3645)- build with -O0 (many new features, potential core dumps will be more useful)- initscript should be ready for parallel booting (#246878)- handle integer overflow in isc_time_secondsastimet function gracefully (#247856)- moved chroot configfiles into chroot subpackage (#248306)- minor changes in default configuration- fix h_errno assignment during resolver initialization (unbounded recursion, #245857)- removed wrong patch to #150288- updated to latest upstream- marked caching-nameserver as obsolete (#244604)- fixed typo in initscript (causes that named doesn't detect NetworkManager correctly)- next cleanup in configuration - moved configfiles into config.tar- removed delay between start & stop in restart function in named.init- major changes in initscript. Could be LSB compatible now- removed caching-nameserver subpackage. Move configs from this package to main bind package as default configuration and major configuration cleanup- very minor compatibility change in bind-chroot-admin (line 215)- enabled IDN support by default and don't distribute IDN libraries- specific cleanup- add dynamic directory to /var/named. This directory will be primarily used for dynamic DNS zones. ENABLE_ZONE_WRITE and SELinux's named_write_master_zones no longer exist- removed ldap-api patch and start using deprecated API- fixed minor problem in bind-chroot-admin script (#241103)- fixed bind-chroot-admin dynamic DNS handling (#239149)- updated zone-freeze patch to latest upstream
- ldap sdb has been rewritten to latest api (#239802)- test build on new build system- updated to 9.4.1 which contains fix to CVE-2007-2241- improved "zone freeze patch" - if multiple zone with same name exists no zone is freezeed
- minor cleanup in caching-nameserver's config file
- fixed race-condition in dbus code (#235809)
- added forgotten restorecon statement in bind-chroot-admin- removed DEBUGINFO option because with this option (default) was bind built with -O0 and without this flag no debuginfo package was produced.
   (I want faster bind => -O2 + debuginfo)
- fixed zone finding (#236426)- added idn support (still under development with upstream, disabled by default)- dnssec-signzone utility now doesn't ignore -d parameter- removed query-source[-v6] options from caching-nameserver config
   (#209954, increase security)
- throw away idn. It won't be ready in fc7- prepared bind to merge review
- added experimental idn support to bind-utils utilis (not enabled by default yet)
- change chroot policy in caching-nameserver post section
- fixed bug in bind-chroot-admin - rootdir function is called properly now- added experimental SQLite support
   (written by John Boyd <jaboydjr@netwalk.com>)
- moved bind-chroot-admin script to chroot package
- bind-9.3.2-redhat_doc.patch is always applied (#231738)- updated to 9.4.0
- bind-chroot-admin now sets EAs correctly (#213926)
- throw away next_server_on_referral and no_servfail_stops patches (fixed in 9.4.0)- minor cleanup in bind-chroot-admin script- fixed broken bind-chroot-admin script (#227995)- bind-chroot-admin now uses correct chroot path (#227600)- fixed conflict between bind-sdb and ldap
- removed duplicated bind directory in bind-libs- fixed building without libbind
- fixed post section (selinux commands is now in if-endif statement)
- prever macro has been removed from version- redirected output from bind-chroot prep and %preun stages to /dev/null- updated to version 9.3.4 which contains security bugfixes- package bind-libbind-devel has been marked as obsolete- package bind-libbind-devel has been removed (libs has been moved to bind-devel & bind-libs)
- Resolves: #214208- fixed a multi-lib issue
- Resolves: rhbz#222717- added namedGetForwarders written in shell (#176100), created by Baris Ciccek <baris@nerd.com.tr>- update to 9.3.3 final
- fix for #219069: file included twice in src.rpm- added back an interval to restart
- renamed package, it should meet the N-V-R criteria
- fix for #216185: bind-chroot-admin able to change root mode 750
- added fix from #215997: incorrect permissions on dnszone.schema
- added a notice to init script when /etc/named.conf doesn't exist (#216075)- fix for #200465: named-checkzone and co. cannot be run as non-root user
- fix for #212348: chroot'd named causes df permission denied error
- fix for #211249, #211083 - problems with stopping named
- fix for #212549: init script does not unmount /proc filesystem
- fix for #211282: EDNS is globally enabled, crashing CheckPoint FW-1, added edns-enable options to named configuration file which can suppress EDNS in queries to DNS servers (see /usr/share/doc/bind-9.3.3/misc/options)
- fix for #212961: bind-chroot doesn't clean up its mess on %preun
- update to 9.3.3rc3, removed already merged patches- fix for #209359: bind-libs from compatlayer CD will not install on ia64- added fix for #210096: warning: group named does not exist - using root- added fix from #209400 - Bind Init Script does not create
the PID file always, created by Jeff Means
- added timeout to stop section of init script.
  The default is 100 sec. and can be adjusted by NAMED_SHUTDOWN_TIMEOUT
  shell variable.- removed chcon from %post script, replaced by restorecon
  (Bug 202547, comment no. 37)- updated to the latest upstream (9.3.3rc2)- added upstream patch for correct SIG
  handling - CVE-2006-4095- suppressed messages from bind-chroot-admin
  - cleared notes about bind-config- added fix for #203522 - "bind-chroot-admin -e" command fails- fix for #203194 -
    tmpfile usage- fix for #202542 - /usr/sbin/bind-chroot-admin: No such file or directory
  - fix for #202547 - file contexts: invalid context- added Provides: bind-config- fix bug 197493: renaming
    subpackage bind-config to caching-nameserver- fix bug 199876: make "%exclude libbind.*" conditional on
    %{LIBBIND} - fix #195881, perms are not packaged correctly- fix addenda to bug 189789:
    determination of selinux enabled was still not 100% correct in bind-chroot-admin
  - fix addenda to bug 196398:
    make named.init test for NetworkManager being enabled AFTER testing for -D absence;
    named.init now supports a 'DISABLE_NAMED_DBUS' /etc/sysconfig/named setting to disable
    auto-enable of named dbus support if NetworkManager enabled.- fix bug 196398 - Enable -D option automatically
    in initscript
    if NetworkManager enabled in any runlevel.
  - fix namedGetForwarders for new dbus
  - fix bug 195881 - libbind.so should be owned by bind-libbind-devel- Rebuild against new dbus- rebuild with fixed
    glibc-kernheaders- rebuild- fix bugs 191093, 189789
  - backport selected fixes from upstream bind9 'v9.3.3b1' CVS version:
    (see http://www.isc.org/sw/bind9.3.php "Fixes"): o change 2024 / bug 16027:
    named emitted spurious "zone serial unchanged" messages on reload o change 2013 / bug 15941:
    handle unexpected TSIGs on unsigned AXFR/IXFR responses more gracefully o change 2009 / bug 15808: coverity fixes o change 1997 / bug 15818:
    named was failing to replace negative cache entries when a positive one
    for the type was learnt o change 1994 / bug 15694: OpenSSL 0.9.8 support o change 1991 / bug 15813:
    The configuration data, once read, should be treated as readonly.
    o misc. validator fixes o misc. resolver fixes o misc. dns fixes o misc. isc fixes o misc. libbind fixes o misc. isccfg fix o misc. lwres fix o misc. named fixes o misc. dig fixes o misc. nssupdate fix o misc. tests fixes- and actually put the devel symlinks in the right subpackage- rebuild for -devel deps- apply
    upstream patch for ncache_adderesult segfault bug 173961 addenda
  - fix bug 188382: rpm --verify permissions inconsistencies
  - fix bug 189186: use /sbin/service instead of initscript
- rebuild for new gcc, glibc-kernheaders- fix resolver.c ncache_adderesult segfault reported in addenda to bug 173961
(upstream bugs #15642, #15528 ?)
- allow named ability to generate core dumps after setuid (upstream bug #15753)- fix bug 187529: make bind-chroot-admin deal with subdirectories properly- fix bug 187286:
  prevent host(1) printing duplicate 'is an alias for' messages
  for the default AAAA and MX lookups as well as for the A lookup
  (it now uses the CNAME returned for the A lookup for the AAAA and MX lookups).
  This is upstream bug #15702 fixed in the unreleased bind-9.3.3
- fix bug 187333: fix SOURCE24 and SOURCE25 transposition- fix bug 186577: remove -L/usr/lib from libbind.pc
  and more .spec file cleanup
- add '%doc' sample configuration files in /usr/share/doc/bind*/sample
- rebuild with new gcc and glibc- fix typo in initscript
- fix Requires(post): policycoreutils in sub-packages- fix bug 185969: more .spec file cleanup- Do not allow package
  to be installed if named:25 userid creation fails
- Give libbind a pkg-config file
- remove restorecon from bind-chroot-admin (not required).
- fix named.caching-nameserver.conf (listen-on-v6 port 53 { ::1 });- fix issues with bind-chroot-admin- replace
  caching-nameserver with bind-config sub-package
- fix bug 177595: handle case where $ROOTDIR is a link in initscript
- fix bug 177001: bind-config creates symlink OK now
- fix bug 176388: named.conf is now never replaced by any RPM
- fix bug 176248: remove unnecessary creation of rpmsave links
- fix bug 174925: no replacement of named.conf
- fix bug 173963: existing named.conf never modified
- major .spec file cleanup- bump again for double-long bug on ppc(64)- regenerate redhat_doc patch for non-DBUS
  builds
- allow dbus builds to work with dbus version < 0.6 (bz #179816)- try supporting without dbus support- Rebuild for
  new gcc, glibc, glibc-kernheaders- fix bug 177854: temporary fix for broken kernel-2.6.15-1854+
  /proc/net/if_inet6 format- Upgrade to 9.3.2, released today- fix bug 176100: do not Require: perl just for
  namedGetForwarders -> rebuild- Upgrade to upstream version 9.3.2rc1
- fix namedSetForwarders -> namedGetForwarders SOURCE14 typo- rebuild for new dbus 0.6 dependency; remove use of
  DBUS_NAME_FLAG_PROHIBIT_REPLACEMENT- allow D-BUS support to work in bind-chroot environment:
  workaround latest selinux policy by mounting /var/run/dbus/
  under chroot instead of /var/run/dbus/system-bus-socket- fix bug 172632 - remove .la files
- ship namedGetForwarders and namedSetForwarders scripts
- fix detection of -D option in chroot- rebuilt with new openssl- Allow the -D enable D-BUS option to be used
  within bind-chroot .
- fix bug 171226: supply some documentation for pgsql SDB .- fix bug 169969: do NOT call dbus_svc_dispatch() in
  dbus_mgr_init_dbus()- task->state != task_ready and will cause Abort in task.c if process
  is waiting for NameOwnerChanged to do a SetForwarders- Fix reconnecting to dbus-daemon after it stops &
  restarts .- When forwarder nameservers are changed with D-BUS, flush the cache.- fix bug 168302: use %{__cc} for
  compiling dns-keygen
- fix bug 167682: bind-chroot directory permissions
- fix issues with -D dbus option when dbus service not running or disabled- fix bug 167062: named should be started
  after syslogd by default- fix bug 166227: host: don't do default AAAA and MX lookups with -t a' option- Build with
D-BUS patch by default; D-BUS support enabled with named -D option
- Enable D-BUS for named_sdb also
- fix sdb pgsql's zonetodb.c: must use isc_hash_create() before dns_db_create()
- update fix for bug 160914: test for RD=1 and ARCOUNT=0 also before trying next server
- fix named.init script to handle named_sdb properly
- fix named.init script checkconfig() to handle named `-c' option
and make configtest, test, check configcheck synonyms- fix named.init script bugs 163598, 163409,
151852(addendum): fix bug 160914: resolver utilities should try next server on empty referral
(now that glibc bug 162625 is fixed)
  host and nslookup now by default try next server on SERVFAIL
  (host now has `-s' option to disable, and nslookup given
   `[no]fail' option similar to dig's [no]fail option).
- rebuild and re-test with new glibc & gcc (all tests passed).- fix bug 157950: dig / host / nslookup should reject
invalid resolv.conf
  files and not use uninitialized garbage nameserver values
  (ISC bug 14841 raised).- Fix SDB LDAP.- Fix bug 157601: give named.init a configtest function
- Fix bug 156797: named.init should check SELinux booleans.local before booleans
- Fix bug 154335: if no controls in named.conf, stop named with -TERM sig, not rndc
- Fix bug 155848: add NOTES section to named.8 man-page with info on all Red Hat
  BIND quirks and SELinux DDNS / slave zone file configuration
- D-BUS patches NOT applied until dhcddb is in FC- Enhancement to allow dynamic forwarder table management and
- DHCP forwarder auto-configuration with D-BUS- Rebuild for bind-sdb libpq.so.3 dependency
- fix bug 150981: don't install libbind man-pages if no libbind
- fix bug 151852: mount proc on $ROOTDIR/proc to allow sysconf(...) to work and correct number of CPUs to be determined- Upgrade to ISC BIND 9.3.1 (final release) released today.- fix bug 150288: h_errno not being accessed / set correctly in libbind
- add libbind man-pages from bind-8.4.6- Rebuild with gcc4 / glibc-2.3.4-14.- configure with --with-pic to get PIC libraries- fix bug 149183: don't use getifaddrs().- Upgrade to 9.3.1rc1
- Add Simplified Database Backend (SDB) sub-package ( bind-sdb )
- add named_sdb - ldap + pgsql + dir database backend support with
  'ENABLE_SDB' named.sysconfig option
- Add BIND resolver library & includes sub-package ( libbind-devel)
- fix bug 147824 / 147073 / 145664: ENABLE_ZONE_WRITE in named.init
- fix bug 146084 : shutup restorecon- Fix bug 143438: named.init will now make correct ownership of
  $ROOTDIR/var/named
  based on 'named_write_master_zones' SELinux boolean.
- Fix bug 143744: dig & nsupdate IPv6 timeout (dup of 140528)- Upgrade BIND to 9.3.0 in Rawhide / FC4 (bugs
  134529, 133654...)- Fix bugs 140528 and 141113:
  - 2 second timeouts when IPv6 not configured and root nameserver's
    AAAA addresses are queried- Fix bug 136243: bind-chroot %post must run restorecon -R %{prefix}
- Fix bug 135175: named.init must return non-zero if named is not run
- Fix bug 134060: bind-chroot %post must use mktemp, not /tmp/named
- Fix bug 133423: bind-chroot %files entries should have been %dirs- BIND 9.2.4 (final release) released - source
code actually
  identical to 9.2.4rc8, with only version number change.- Upgrade to upstream bind-9.2.4rc8 .
- Progress: Finally! Hooray! ISC bind now distributes:
  - o named.conf(5) and nslookup(8) manpages
- 'bind-manpages.bz2' source can now disappear
- (could this have something to do with ISC bug I raised about this?)
- o 'deprecation_msg' global has vanished
- bind-9.2.3rc3-deprecation_msg_shut_up.diff.bz2 can disappear- Fix bug 106572/132385: copy /etc/localtime to chroot on start- Fix bug 132303: if ROOTDIR line was replaced after upgrade from
- bind-chroot-9.2.2-21, restart named- Fix bug 131803: replace ROOTDIR line removed by broken
- bind-chroot 9.2.2-21’s `%postun`; added `%triggerpostun` for bind-chroot- Fix bugs 130121 & 130981 for RHEL-3- Fix bug 130121: add `%ghost` entries for files included in previous
- bind-chroot & not in current - ie. named.conf, rndc.key, dev/*
- that RPM removed after upgrade .- Fix bug 130981: add '-t' option to named-checkconf invocation in
- named.init if chroot installed.- Remove resolver(5) manpage now in man-pages (bug 130792);
- Don't create /dev/ entries in bind-chroot if already there (bug 127556);
- fix bind-devel Requires (bug 130919)
- Set default location for dumpdb & stats files to /var/named/data- Fix devel Requires for bug 130738 & fix version-
- Fix errors on clean install if named group does not exist
- (bug 130777)- Upgrade to bind-9.2.4rc7; applied initscript fix
- for bug 102035.- Fixed bug 129289: bind-chroot install / deinstall
- on install, existing confg files 'safe_replace'd
- with links to chroot copies; on uninstall, moved back.- Fixed bug 129258: "${prefix}/var/tmp" typo in spec- Fixed bug 127124 : 'Requires: kernel >= 2.4'
- causes problems with Linux VServer's Fixed bug 127555 : chroot tar missing var/named/slaves- Upgraded to ISC version 9.2.4rc6- Fixed named.init generation of error messages on
- 'service named stop' and 'service named reload'
- as per bug 127775- Bump for rhl 3.0 U3- remove disable-linux-caps- Update RHEL3 to latest bind- rebuilt-
- Remove device files from chroot, Named uses the system one- Move RFC to devel package- Fix location of restoreon- Tighten security on config files. Should be owned by root- Update key patch to include conf-keygen-
- chroot to only happen once.
- fix init script to do kill instead of killall- Add fix for SELinux security context- rebuilt- run ldconfig for libs
- subrpm- Use ':' instead of '.' as separator for chown.- Add COPYRIGHT- rebuilt- Add defattr to libs- Break out library package- Fix condestart- Move libisc and libdns to bind from bind-util- Move to 9.2.3- Add PIE support-
- Add /var/named/slaves directory- do not link against libnsl, not needed for Linux- Fix local time in log file- Try again- Fix handling of chroot -/dev/random- Stop hammering stuff on update of chroot environment- Fix chroot directory to grab all subdirectories- New patch to support for "delegation-only"- patch support for "delegation-only"- Update to build on RHL- Install libraries as exec so debug info will be pulled- Remove BSDCOMPAT (BZ 99454)- Update to build on RHL- Change protections on /var/named and /var/chroot/named- Update to build on RHL-
- Update to build on RHEL- rebuilt- Update to build on RHEL- Fix config description of named.conf in chroot-
- Change named.init script to check for existence of /etc/syconfig/network- Update to build on RHEL- Update to build on RHEL- Fix echo OK on starting/stopping service- Update to build on RHEL- Fix echo on startup - Fix problems with chroot environment
- Eliminate posix threads- Fix build problems- Fix build on beehive- build bind-chroot kit- Change configure to use proper threads model- update to 9.2.2- update to 9.2.2- Put a sleep in restart to make sure stop completes- rebuilt-
- Separate /etc/rndc.key to separate file- Use openssl's pkgconfig data, if available, at build-time.- Fix log rotate to use service named reload
- Change service named reload to give success/failure message [73770]
- Fix File checking [75710]
- Begin change to automatically run in CHROOT environment- Fix startup script to work like all others.- Fix
- configure to build on x86_64 platforms- fix #70583. doesn't build on IA64- bind-utils shouldn't require bind- fix
- name of pidfine in logrotate script (#68842)
- fix owner of logfile in logrotate script (#41391)
- fix nslookup and named.conf man pages (output on stderr) (#63553, #63560, #63561, #54889, #57457)
- add rfc1912 (#50005)
- gzip all rfc's
- fix typo in keygen.c (#54870)
- added missing manpages (#64065)
- shutdown named properly with rndc stop (#62492)
- /sbin/nologin instead of /bin/false (#68607)
- move nsupdate to bind-utils (where the manpage already was) (#66209, #66381)
- don't kill initscript when rndc fails (reload) (#58750)- Fix #65975- automated rebuild- automated rebuild- Move
libiscce, lib isccfg and liblwres from bind-utils to bind,
they're not required if you aren't running a nameserver.- update to 9.2.1 release- Merge 30+ bug fixes from 9.2.1rc1
code- Don't exit if /etc/named.conf doesn't exist if we're running
chroot (#60868)
- Revert Elliot's changes, we do require specific glibc/glibc-kernheaders
versions or bug #58335 will be back. "It compiles, therefore it works"
isn't always true.- Fix BuildRequires (we don't need specific glibc/glibc-kernheaders
versions).
- Use _smp_mflags- rebuild, require recent autoconf, automate (#58335)- rebuild against new libssl- automated
rebuild- 9.2.0- 9.2.0rc10- Fix up rndc.conf (#55574)- rc8
- Enforce --enable-threads- 9.2.0rc7
- Use rndc status for "service named status", it's supposed to actually
work in 9.2.x- 9.2.0rc5
- Fix rpm --rebuild with ancient libtool versions (#53938, #54257)- 9.2.0rc4- 9.2.0rc3
- remove ttl patch, I don't think we need this for 8.0.
- remove dig.1.bz2 from the bind8-manpages tar file, 9.2 has a new dig man page
- add lwres* man pages to -devel- Make sure /etc/rndc.conf isn't world-readable even after the
%post script inserted a random key (#53009)- Add build dependencies (#49368)
- Make sure running service named start several times doesn't create
useless processes (#47596)
- Work around the named parent process returning 0 even if the config
file is broken (it's parsed later by the child processes) (#45484)- Don't use rndc status, it's not yet implemented
(#48839)- update to 9.1.3 release- Fix up rndc configuration and improve security (#46586)- Sync with caching-
nameserver-7.1-6- Update to rc2- Remove resolv.conf(5) man page, it's now in man-pages- Add named.conf man
page from bind 8.x (outdated, but better than nothing,
- Rename the rndc key (#42895)
- Add dnssec* man pages- 9.1.3rc1
- s/Copyright/License/- 9.1.2 final. No changes between 9.1.2-0.rc1.1 and this one, except for
the version number, though- 9.1.2rc1- 9.1.1- Merge fixes from 9.1.1rc5- Work around bind 8 -> bind 9 migration
problem when using buggy zone files:
accept zones without a TTL, but spew out a big fat warning. (#31393)- Add fixes from rc4- rebuild in new
environment- killall -HUP named if rndc reload fails (#30113)- Merge some fixes from 9.1.1rc3- Don't use the
standard rndc key from the documentation, instead, create a random one
at installation time (#26358)
- Make /etc/rndc.conf readable by user named only, it contains secret keys- 9.1.1 probably won't be out in time,
revert to 9.1.0 and apply fixes
from 9.1.1rc2
- bind requires bind-utils (#28317)- Update to rc2, fixes 2 more bugs
- Fix build with glibc >= 2.2.1-7- Update to 9.1.1rc1; fixes 17 bugs (14 of them affecting us;
1 was fixed in a Red Hat patch already, 2 others are portability
improvements)- Remove initscripts 5.54 requirement (#26489)- Add named-checkconf, named-checkzone
(#25170)- use echo, not gprintf- Fix problems with SGENERATE
Patch from Daniel Roesen <drosen@entire-systems.com>
Bug #24890- 9.1.0 final- 9.1.0rc1
- i8nify init script
- bzip2 source to save space- Fix %postun script- 9.1.0b3- Add named.conf man page from bind8 (#23503)- Make
/etc/nmc.conf and /etc/sysconfig/named noreplace
- Make devel require bind = %{version} rather than just bind- Fix init script for real- Fix init script when ROOTDIR
is not set- Add hooks for setting up named to run chroot (RFE #23246)
- Fix up requirements- 9.1.0b2- Move run files to /var/run/named/ - /var/run isn't writable
by the user we're running as. (Bug #20665)- Fix reverse lookups (#22272)
- Run Idconf in %post utilis- fixed logrotate script (wrong path to kill)
- include header files in -devel package
- bugzilla #22049, #19147, 21606- 9.1.0b1 (9.1.0 is in our timeframe and less buggy)- 9.0.1- Fix initscript (Bug
#19956)
- Add sample rndc.conf (Bug #19956)
- Fix build with tar 1.13.18- Add some missing man pages (taken from bind8) (Bug #18794)- 9.0.0 final- rc5
- fix up nslookup- rc4- 9.0.0rc1- automatic rebuild- add "exit 0" for uninstall case- add prereq init.d and cleanup
install section- fix the init script- make libbind.a and nslookup.help readable again by setting INSTALL_LIB to ""
- Fix up the initscript (Bug #13033)
- Fix build with current glibc (Bug #12755)
- /etc/rc.d/init.d -> /etc/init.d
- use %{_mandir} rather than /usr/share/man- fix conflict with man-pages
- remove compatibility chkconfig links
- initscript munging- modify logrotate setup to use PID file
- temporarily disable optimization by unsetting $RPM_OPT_FLAGS at build-time
- actually bump the release this time- FHS compliance- clean up restart patch- provide /var/named (fix for bugs
#9847, #10205)
- preserve args when restarted via ndc(8) (bug #10227)
- make resolv.conf(5) a link to resolver(5) (bug #10245)
- fix SYSTYPE bug in all makefiles
- move creation of named user from %post into %pre- Fix TTL (patch from ISC, Bug #9820)- fix typo in spec (it's
%post, without a leading blank) introduced in -6
- change SYSTYPE to linux- pick a standard < 100 uid/gid for named- Pass named a '-u named' parameter by
default, and add/remove user.- fix host mx bug (Bug #9021)- rebuild to fix dependencies
- man pages are compressed- It's /usr/bin/killall, not /usr/sbin/killall (Bug #8063)- Fix up location of named-
bootconf.pl and make it executable
(Bug #8028)
- bind-devel requires bind- update to 8.2.2-P5- update to 8.2.2-P3- add patch to stop a cache only server from
complaining about lame servers
on every request.- use real stop and start in named.init for restart, not ndc restart, it has
problems when named has changed during a package update... (#490)- chkconfig --del in %preun, not %postun-
initscript munging- fix installed chkconfig links to match init file- conflict with new (in man-1.24) man pages
(#3876,#3877).- fix named.logrotate (wrong %SOURCE)- update to 8.2.1.
- add named.logrotate (#3571).
- hack around egcs-1.1.2 -m486 bug (#3413, #3485).
- vet file list.- don't run by default- nslookup fixes (#2463).
- missing files (#3152).- nslookup patched:
  to count numRecords properly
  to parse "view" and "finger" commands properly
  the view hack updated for bind-8 (using sed)- add ISC patch
- add quick hack to make host not crash
- add more docs- add more information in the init file to keep linuxconf happy
- dont strip libbind- auto rebuild in the new build environment (release 3)- removed 'done' output at named shutdown.- version 8.2- patch to use the ___FDS_BITS macro
- build for glibc 2.1- change named.restart to /usr/sbin/named restart- install man pages correctly.
- change K10named to K45named.- don't start if /etc/named.conf doesn't exist.- automagically create /etc/named.conf from /etc/named.boot in /%post
- remove echo in %post- merge in 5.1 mods- Several essential modifications to build and install correctly.
- Modified 'ndc' to avoid deprecated use of ':-'- Used buildroot
- patched bin/named/ns_udp.c to use <libelf/nlist.h> for include
- on Redhat 5.0 instead of <nlist.h>32:9.9.4-72.elbind-license-9.9.4COPYRIGHT/usr/share/doc/usr/share/doc/bind-license-9.9.4-/O2 -g -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -fstack-protector-strong --param=ssp-buffer-size=4 -grecord-gcc-switches -m64 -mtune=generic cpioxz2x86_64-redhat-linux-gnu directoryUTF-8 Unicode text?
1.47 bind-license 9.11.4 :9.P2.el7

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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 form the ones in the Monotone project, revision 3a09f82da308228d796df35f98d787c5c0f2bb5b6.

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 piostream 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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* 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 form 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 piostream 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.

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2 
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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 form the ones in the Monotone project, revision 3a0982da30f28d796dc35f8d878c5c0f2bb5b6.

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.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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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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- Fix CVE-2019-6471: Fix scriptlet errors when selinux-policy is not installed (#1647659)
- Fix ineffective limit of TCP clients (CVE-2018-5743)
- Use /sbin/nologin again (#1676661)
- Make sure selinux-policy is installed soon enough (#1647659)
- Disable custom random generator for export libs (#1685940)
- Move dnsssec utilities back to bind package
  - Remove separate python-bind package
  - Rebase features patches
  - Disable autodetected eddsa algorithm ED448
  - Add versioned depends to all library subpackages
  - Fix multilib conflict of devel packages
  - Fixes debug level comments (#1647539)
  - Fix automatic selinux boolean named_write_master_zones (#1569466)
  - Allow starting named with readonly home again
  - Fix CVE-2018-5740
  - Fix compiler warnings
  - Refetch always with record with TTL 0 (#1549130)
  - Detect and disable MD5 functions in FIPS 140-2 mode (#1519306)
  - Move change of dns_view_t to the end (#1452091)
  - Correct recursing file name (#1435883)
  - Use python binary again, install all modules (#1510008)
  - Add rndc secroots and recursing output files into data (#1435883)
  - Backported negative trust anchors (#1452091)
  - Make named home writeable (#1569466)
  - Change named shell to /bin/false
  - Resolves: #1510008
  - Add support for dnssec-keymgr
  - Fix regression caused by bug #1470637
  - Support for additional signing algorithms in rndc (#1501531)
  - New autogenerated rndc keys will use hmac-sha256 algorithm
  - Fix multilib regression in headers
  - Add with-tunning=large support (#rh1464850)
  - Named-chroot restart leak (#1503646)
  - Handle dig timeouts the same way as upstream (#1470637)
  - Do not use next search domain on timeout from dig (#1470637)
  - Fixed TSIG validation of AXFR and IXFR (#1476013)
  - Update root servers and trust anchor (#1452635)
  - Address deadlock between view.c and adb.c (#1416304)
  - Fix CVE-2017-3136 (ISC change 4575)
  - Fix CVE-2017-3137 (ISC change 4578)
  - Simplify change of used config file, point to KB article (#1271315)
  - Make comment how to use different config file (#1271315)
  - Install again dns/dlz.h skipped in rebase
  - Fixed coverity warnings on reenabled test dlzexternal
  - Backported new upstream dyndb interface, removed dynamic_db (#1393886)
  - Do not warn on WKS patch (#1392362)
  - Support WKS records in chroot
  - Fix CVE-2017-3135 (ISC change 4557)
  - Fix and test caching CNAME before DNAME (ISC change 4558)
  - Fix possible infinite loop in start_lookup (CVE-2016-2775)
  - Do not change lib permissions in chroot (#1392531)
  - Fix CVE-2016-9131 (ISC change 4508)
  - Fix CVE-2016-9147 (ISC change 4510)
  - Fix regression introduced by CVE-2016-8864 (ISC change 4530)
  - Fix CVE-2016-9444 (ISC change 4517)
  - Fix CVE-2016-8864
  - Fix CVE-2016-2776
  - Added automatic interface scan functionality (#1294506)
  - Removed NetworkManager dispatcher script since it is not needed any more (#1294506)
  - Added GeoIP support (#1220594)
  - Added support for CAA records (#1306610)
  - Use HTTPS URL instead of FTP for upstream sources (#1319280)
  - Fix excessive queries caused by DS chasing with stub zones when DNSSEC is not used (#1291185)
  - Fix error in internal test suite (#1259514)
  - Fix named-checkconf call in *-chroot.service files (#1278082)
  - Fix incorrect path in BIND sample configuration and added comment to default configuration (#1247502)
- Fix SPF resource records check to comply with RFC7208 (#1215164)
- Don't use ISC's DLV by default (#1223336)- Add version specific requires on bind for bind-pkcs11 (Related: #1097753)
- Resolve issues found by static analysis (Related: #1097753)- Added native PKCS#11 functionality (#1097753)- DNS resolution failure in high load environment with SERVFAIL and "out of memory/success" in the log (#1221180)- Install config for tmpfiles under %(_tmpfilesdir) (#1180976)
- Fixed systemctl path in logrotate configuration (#1164264)
- remove information about system-config-bind from named.8 man page (#1152066)- Fix CVE-2015-1349- Fix CVE-2014-8500 (#1171976)- Fix error in dyndb API that can cause named to freeze on shutdown (#1142150)
- Fix error in triggerun scriptlet (#1143033)
- Remove /var/named/chroot/var/run on bind-chroot update if it is a directory (#1091341)- Add versioned requires on bind-libs to bind-utils and bind-sdb- Use /dev/urandom when generating rndc.key file (#1107568)
- Allow authentication using TSIG in allow-notify configuration statement (#1067424)
- Fix race condition when destroying a resolver fetch object (#1072379)
- Increase defaults for lwresd workers and make workers and client objects number configurable (#1098959)
- Configure BIND with --with-dlopen=yes to support dynamically loadable DLZ drivers (#1096688)- Mass rebuild 2014-01-24- Rebuild for mariadb-libs
Related: #1045013- Fix CVE-2014-0591- Build against libdb instead of libdb4 (#1044990)- Mass rebuild 2013-12-27- Fix crash in rbtdb after two successive getoriginnode() calls (#1044026)- Split chroot package for named and named-sdb
- Extract setting-up/destroying of chroot to a separate systemd service (#1004300)- Create symlink /var/named/chroot/var/run -> /var/named/chroot/run (#1024384)
- Added session-keyfile statement into default named.conf since we use /run/named (#1024384)- Fixed memory leak in nsupdate if 'realm' was used multiple times (#1034824)- Install configuration for rwtab and fix chroot setup script (#1028189)
- use --enable-filter-aaaa when building bind to enable filter-aaaa-on-v4 option (#1025245)- Correct the patch for #1020683- Fix race condition on send buffers in dighost.c (#1020683)- install isc/errno2result.h header (#1015165)- update to 9.9.4 (#1010200)
- drop merged patches
- modify patches to fit on new version- Fix [ISC-Bugs #34738] dns_journal_open() returns a pointer to stack- Don't generate rndc.key if there exists rndc.conf- don't install named-sdb.service if SDB macro is defined to zero- update to 9.9.3-P2 (fix for CVE-2013-4854)
- update RRL patch to 9.9.3-P2-rl.13207.22
- Fix script for setting up chroot so it unmounts everything successfully- Fix dates in Changelog- update to 9.9.3-P1 (fix for CVE-2013-3919)
- update RRL patch to 9.9.3-P1-rl.156.01- bump release to prevent update path issues- update to 9.9.3
- install dns/update.h header
- update RRL patch to the latest version 9.9.3-rl.150.20- Fix segfault in host/nslookup (#878139)- update to 9.9.3rc2
- part of bind97-exportlib.patch not needed any more
- bind-9.9.1-P2-multlib-conflict.patch modified to reflect latest source
- rl-9.9.3rc1.patch -> rl-9.9.3rc2.patch
- bind99-opts.patch merged- Include recursion Warning in named.conf and named.conf.sample (#740894)
- Include managed-keys-directory statement in named.conf.sample (#948026)- Fix zone2sqlite to quote table names when creating/dropping/inserting (#919417)- fix crash in nsupdate when processing "-r" parameter (#949544)- ship
dns/rrl.h in -devel subpkg- update to 9.9.3rc1
- bind-96-liibtool2.patch has been merged
- fix bind tmpfiles.d for named.pid /run migration (#920713)- New upstream patch version fixing CVE-2013-2266 (#928032)- move pidfile to /run/named/named.pid- Fix Makefile.in to include header added by rate limiting patch (#918330)- drop some developer-only documentation and move ARM to %docdir- include rate limiting patch- Corrected IP addresses in named.ca (#901741)
- mount/umount /var/named in setup-named-chroot.sh as the last one (#904666)- generate /etc/rndc.key during named service startup if it doesn't exist
- increase startup timeout in systemd units to 90sec (default)
- fix IDN related statement in dig.1 manpage- update to bind-9.9.2-P1- document dig exit codes in manpage
- ignore empty "search" options in resolv.conf- drop PKCS11 support on rhel- install isc/stat.h- update to 9.9.2
- bind97-rh714049.patch has been dropped
- patches merged
- bind98-rh816164.patch- update to bind-9.9.1-P3- fixed SPEC file so it comply with new systemd-rpm macros guidelines (#850045)
- changed %define macros to %global and fixed several rpmlint warnings- Changed PrivateTmp to "false" in *-chroot.service unit files (#825869)- Fixed bind-devel multilib conflict (#478718)- Fixed bad path to systemctl in /etc/NetworkManager/Dispatcher.d/13-named (#844047)
- Fixed path to libdb.so in config.dlz.in- update to 9.9.1-P2- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild- Avoid shell invocation and dep for -libs-lite %postun.-- update to 9.9.1-P1 (CVE-2012-1667)- update to 9.9.1
- bind99-coverity.patch merged
- bind-9.5-overflow.patch merged- nslookup: return non-zero exit code when fail to get answer (#816164)- initscript: don't umount /var/named when didn't mount it- apply all non-SDB patches before SDB ones (#804475)
- enable Berkeley DB DLZ backend (#804478)- bind97-rh699951.patch is no longer needed (different fix is in 9.9.0)- remove unneeded bind99-v6only.patch- update to 9.9.0
- load dynamic DBs later (and update dyndb patch)
- fix memory leak in named during processing of rndc command
- don't call `rndc-confgen -a` in "post" section
- fix some packaging bugs in bind-chroot- build with "--enable-fixed-rrset"- update to 9.9.0rc2
- doc/rfc and doc/draft are no longer shipped in tarball- retire initscript in favour of systemd unit files (#719419)- update to 9.9.0rc1- ship /etc/trusted-key.key (needed by dig)
- make /etc/named.{root,iscdlv}.key world-readable
- add bind-libs versioned requires to bind pkg- fix rare race condition in request.c
- print "the working directory is not writable" as debug message
- re-add configtest target to initscript
- initscript: sybsys name is always named, not named-sdb
- nsupdate returned zero when target zone didn't exist (#700097)
- nsupdate could have failed if server has multiple IPs and the first was unreachable (#714049)- update to 9.8.1rc1
- patches merged
- bind97-rh700097.patch
- bind99-cinfo.patch- ship dns/clientinfo.h in bind-devel- update to 9.9.0b1
- bind98-dlz_buildfix.patch merged- nslookup failed to resolve name in certain cases- remove deps filter, it is no longer needed (#739663)- fix logrotate config file (#725256)- update to 9.8.1
- ship /etc/trusted-key.key (needed by dig)
- use select instead of epoll in export libs (#735103)- fix DLZ related compilation issues
- make /etc/named.{root,iscdlv}.key world-readable
- add bind-libs versioned requires to bind pkg- fix rare race condition in request.c
- print "the working directory is not writable" as debug message
- re-add configtest target to initscript
- initscript: sybsys name is always named, not named-sdb
- nsupdate returned zero when target zone didn't exist (#700097)
- nsupdate could have failed if server has multiple IPs and the first was unreachable (#714049)- update to 9.8.1rc1
- patches merged
- bind97-headers.patch merged
- update default configuration- update to 9.7.0b3- install isc/namespace.h header- update to 9.7.0b2- update to 9.7.0b1
- add bind-plcs11 subpackage to support PKCS11 compatible keystores for DNSSEC
  - don't package named-bootconf utility, it is very outdated and unneeded- determine file size via `stat` instead of `ls` (#523682)- update to 9.7.0a3- improve chroot related documentation (#507795)
- add NetworkManager dispatcher script to reload named when network interface is activated/deactivated (#490275)
- don't set/unset named_write_master_zones SELinux boolean every time in initscript, modify it only when it's actually needed- update to 9.7.0a2
- merged patches
  - bind-96-db_unregister.patch
  - bind96-rh507469.patch- next attempt to fix the postun trigger (#520385)
  - remove obsolete bind-9.3.1rc1-fix_libbind_includedir.patch- rebuilt with new openssl- update the patch for dynamic loading of database backends- 9.6.1-P1 release (CVE-2009-0696)
  - fix postun trigger (#513016, hopefully)- rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild- remove useless bind-9.3.3rc2-mdckey.patch- fix broken symlinks in bind-libs (#509635)
  - fix typos in /etc/sysconfig/named (#509650)
  - add DEUBG option to /etc/sysconfig/named (#510283)- improved "chroot automount" patches (#504596)
  - host should fail if specified server doesn't respond (#507469)- 9.6.1 release
  - simplify chroot maintenance. Important files and directories are mounted into chroot (see /etc/sysconfig/named for more info, #504596)
  - fix doc/named.conf.default perms- 9.6.1rc1 release- update the patch for dynamic loading of database backends
  - create `%{_libdir}/bind` directory
  - copy default named.conf to doc directory, shared with s-c-bind (atkac)- update the patch for dynamic loading of database backends
  - fix dns_db_unregister()
  - useradd now takes "-N" instead of "-n" (atkac, #495726)
  - print nicer error msg when zone file is actually a directory (atkac, #490837)- 9.6.1b1 release
  - patches merged
    - bind-96-isc_header.patch
    - bind-95-rh469440.patch
    - bind-96-realloc.patch
    - bind9-fedora-0001.diff
    - use -version-number instead of -version-info libtool param- logrotate configuration file now points to /var/named/data/named.run by default (#489986)- fall back to insecure mode when no supported DNSSEC algorithm is found instead of SERVFAIL
    - don't fall back to non-EDNS0 queries when DO bit is set- enable DNSSEC only if it is enabled in sysconfig/dnssec- add DNSSEC support to initscript, enabled it per default
    - add requires dnssec-conf- fire away libbind, it is now separate package- fixed some read buffer overflows (upstream)- rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild- update the patch for dynamic loading of database backends
    - include iterated_hash.h- rebuild for dependencies- rebuild against new openssl- 9.6.0-P1 release (CVE-2009-0025)- Happy new year
    - 9.6.0 release- 9.6.0rc2 release
    - bind-96-rh475120.patch merged- add patch for dynamic loading of database backends- allow to reuse address for non-random query-source ports (#475120)- 9.6.0rc1 release
- patches merged
- bind-9.2.0rc3-varrun.patch
- bind-95-sdlz-include.patch
- bind-96-libxml2.patch
- fixed rare use-after-free problem in host utility (#452060)
- enabled chase of DNSSEC signature chains in dig- improved sample config file (#473586)- reverted previous change, koji doesn’t like it- build bind-chroot as noarch- updates due libtool 2.2.6
- don’t pass -DLDDLAP DEPRECATED to cpp, handle it directly in sources- make statistics http server working, patch backported from 9.6 HEAD- 9.6.0b1 release
- don’t build ODBC and Berkeley DB DLZ drivers
- end of bind-chroot-admin script, copy config files to chroot manually
- /proc doesn’t have to be mounted to chroot
- temporary use libbind from 9.5 series, noone has been released for 9.6 yet- dig/host: use only IPv4 addresses when -4 option is specified (#469440)- removed unneeded bind-9.4.1-ldap-api.patch- ship dns/[s,]dlz.h and isc/radix.h in bind-devel- removed bind-9.4.0-dnssec-directory.patch, it is wrong- 9.5.1b2 release
- patches merged
- bind95-rh454783.patch
- bind-9.5-edns.patch
- bind95-rh450995.patch
- bind95-rh457175.patch- IDN output strings didn’t honour locale settings (#461409)- disable transfer stats on DLZ zones (#454783)- add forgotten patch for #457175
- build with -O2- static libraries are no longer supported
- IP acls weren’t merged correctly (#457175)
- use fPIE on sparcv9/sparc64 (Dennis Gilmore)
- add sparcp64 to list of 64bit arches in spec (Dennis Gilmore)- updated patches due new rpm (--fuzz=0 patch parameter)- use %patch0 for Patch0 (#455061)
- correct source address (#455118)- 9.5.1b1 release (CVE-2008-1447)
- dropped bind-9.5-recev-race.patch because upstream doesn’t want it- update default named.conf statements (#452708)- some compat changes to fix building on RHEL4- fixed typo in %posttrans script- parse inner acls correctly (#450995)- removed dns-keygen utility in favour of rndc-confgen -a (#449287)
- some minor sample fixes (#449274)- updated to 9.5.0 final
- use getifaddrs to find available interfaces- make /var/run/named writable by named (#448277)
- fixed one non-utf8 file- fixes needed to pass package review (#225614)- bind-chroot now depends on bind (#446474)- updated to 9.5.0rc1
- merged patches
- bind-9.5-libcap.patch
- make binaries readable by others (#427826)- reverted ”any” patch, upstream says not needed
- log EDNS failure only when we really switch to plain EDNS (#275091)
- detect configuration file better- addresses 0.0.0.0 and ::0 really match any (#275091, comment #28)- readded bind-9.5-libcap.patch
- added bind-9.5-recev-race.patch from F8 branch (#400461)- build Berkeley DB DLZ backend- 9.5.0b3 release
- dropped patches (upstream)
- bind-9.5-transfer-segv.patch
- bind-9.5-mudflap.patch
- bind-9.5.0-generate-xml.patch
- bind-9.5-libcap.patch- fixed named.conf.sample file (#437569)- fixed URLs- BuildRequires cleanup- rebuild without mudflap (#434159)- port named to use libcap library, enable threads (#433102)
- removed some unneeded Requires- removed conditional build with libefence (use -fmudflap instead)
- fixed building of DLZ stuff (#432497)
- do not build Berkeley DB DLZ backend
- temporary build with --disable-linux-caps and without threads (#433102)
- update named.ca file to affect IPv6 changes in root zone- build with -D_GNU_SOURCE (#431734)
- improved fix for #253537, posttrans script is now used
- improved fix for #400461
- 9.5.0b2
- bind-9.3.2b1-PIE.patch replaced by bind-9.5-PIE.patch
  - only named, named-sdb and lwresd are PIE
- bind-9.5-sdb.patch has been updated
- bind-9.5-libidn.patch has been updated
- bind-9.4.0-sdb-sqlite-bld.patch replaced by bind-9.5-sdb-sqlite-bld.patch
- removed bind-9.5-gssapi-header.patch (upstream)
- removed bind-9.5-CVE-2008-0122.patch (upstream)
- removed bind-9.2.2-nsl.patch
- improved sdb_tools Makefile.in- fixed segfault during sending notifies (#400461)
- rebuild with gcc 4.3 series- removed bind-9.3.2-prctl_set_dumpable.patch (upstream)
- allow parallel building of ldbns library
- CVE-2008-0122- fixed initscript wait loop (#426382)
- removed dependency on policycoreutils and libselinux (#426515) - fixed regression caused by libidn2 patch (#426348)- fixed typo in post section (CVE-2007-6283)- removed obsolete triggers
- CVE-2007-6283- added dst/gssapi.h to -devel subpackage (#419091)
- improved fix for (#417431)- fixed shutdown with initscript when rndc doesn't work (#417431)
- fixed IDN patch (#412241)- 9.5.0b1 (#405281, #392491)- Rebuild for deps- build with -O0- bind-9.5-
- removed bind-9.3.3-edns.patch patch (see #275091 for reasons)- build with O2
- removed "autotools" patch
- bugfixing in bind-chroot-admin (#279901)- bind-9.5-2119_revert.patch and bind-9.5-fix_h_errno.patch are
  obsolete by upstream bind-9.5-__res_errno.patch- fixed wrong resolver's dispatch pool cleanup (#275011.
  patch from tmraz redhat com)- initscript failure message is now printed correctly (#277981, Quentin Armitage (quentin armitage org uk) )- temporary revert ISC 2119 change and add "libbind-errno" patch (#254501) again- removed end dots from Summary sections (skasal@redhat.com)
- fixed wrong file creation by autotools patch (skasal@redhat.com)- start using --disable-isc-spnego configure
option
- remove bind-9.5-spnego-memory_management.patch (source isn't compiled)- added new initscript option KEYTAB_FILE which specified where is located kerberos .keytab file for named service
- obsolete temporary bind-9.5-spnego-memory_management.patch by bind-9.5-gssapictx-free.patch which conforms BIND coding standards (#251853)- dropped direct dependency to /etc/openldap/schema directory
- changed hardcoded paths to macros
- fired away code which configure LDAP server- named could crash with SRV record UPDATE (#251336)- disable 64bit dlz driver patch on alpha and ia64 (#251298)
- remove wrong malloc functions from lib/dns/spnego.c (#251853)- changed licence from BSD-like to ISC- disabled named on all runlevels by default- minor next improvements on autotools patch
- dig and host utilities now using libidn instead idnkit for IDN support- binutils/gcc bug rebuild (#249435)- updated to 9.5.0a6 which contains fixes for CVE-2007-2925 and CVE-2007-2926
- fixed building on 64bits- integrated "autotools" patch for testing purposes (upstream will accept it in future, for easier building)- fixed DLZ drivers building on 64bit systems- fixed relation between logrotated and chroot-ed named- removed bind-sdb package (default named has compiled SDB backend now)
- integrated DLZ (Dynamically loadable zones) drivers
- integrated GSS-TSIG support (RFC 3645)
- build with -O0 (many new features, potential core dumps will be more useful)- initscript should be ready for parallel booting (#246878)- handle integer overflow in isc_time_secondsastimet function gracefully (#247856)- moved chroot configfiles into chroot subpackage (#248306)- minor changes in default configuration
- fix h_errno assigment during resolver initialization (#247856)
- removed wrong patch to #150288- updated to latest upstream- marked caching-nameserver as obsolete (#244604)
- fixed typo in initscript (causes that named doesn't detect NetworkManager correctly)
- next cleanup in configuration - moved configfiles into config.tar
- removed delay between start & stop in restart function in named.init- major changes in initscript. Could be LSB compatible now
- removed caching-nameserver subpackage. Move configs from this package to main bind package as default configuration and major configuration cleanup- very minor compatibility change in bind-chroot-admin (line 215)
- enabled IDN support by default and don't distribute IDN libraries
- specfile cleanup
- add dynamic directory to /var/named. This directory will be primarily used for dynamic DNS zones. ENABLE_ZONE_WRITE and SELinux's named_write_master_zones no longer exist- removed ldap-api patch and start using deprecated API
- fixed minor problem in bind-chroot-admin script (#241103)- fixed bind-chroot-admin dynamic DNS handling (#239149)
- updated zone-freeze patch to latest upstream
- ldap sdb has been rewritten to latest api (#239802)- test build on new build system- updated to 9.4.1 which contains fix to CVE-2007-2241- improved "zone freeze patch" - if multiple zone with same name exists no zone is freed
- minor cleanup in caching-nameserver's config file
- fixed race-condition in dbus code (#235809)
- added forgotten restorecon statement in bind-chroot-admin- removed DEBUGINFO option because with this option (default) was bind
builted with -O0 and without this flag no debuginfo package was produced.
(I want faster bind => -O2 + debuginfo)
- fixed zone finding (#236426)- added idn support (still under development with upstream, disabled by default)-
dnsssec-signzone utility now doesn't ignore -d parameter- removed query-source[-v6] options from caching-
nameserver config (#209954, increase security)
- throw away idn. It won't be ready in fc7- prepared bind to merge review
- added experimental idn support to bind-utils utils (not enabled by default yet)
- change chroot policy in caching-nameserver post section
- fixed bug in bind-chroot-admin - rootdir function is called properly now- added experimental SQLite support
  (written by John Boyd <jaboydjr@netwalk.com>)
- moved bind-chroot-admin script to chroot package
- bind-9.3.2-redhat_doc.patch is always applied (#231738)- updated to 9.4.0
- bind-chroot-admin now sets EAs correctly (#213926)
- throw away next_server_on_referral and no_servfail_stops patches (fixed in 9.4.0)- minor cleanup in bind-chroot-
admin script- fixed broken bind-chroot-admin script (#227995)- bind-chroot-admin now uses correct chroot path
(#227600)- fixed conflict between bind-sdb and ldap
- removed duplicated bind directory in bind-libs- fixed building without libbind
- fixed post section (selinux commands is now in if-endif statement)
- prever macro has been removed from version- redirected output from bind-chroot prep and %preun stages to
/dev/null- updated to version 9.3.4 which contains security bugfixes- package bind-libbind-devel has been marked as
obsolete- package bind-libbind-devel has been removed (libs has been moved to bind-devel & bind-libs)
- Resolves: #214208- fixed a multi-lib issue
- Resolves: rhbz#222717- added namedGetForwarders written in shell (#176100), created by Baris Cicek <baris@nerd.com.tr>- update to 9.3.3 final
- fix for #219069: file included twice in src.rpm- added back an interval to restart
- renamed package, it should meet the N-V-R criteria
- fix for #216185: bind-chroot-admin able to change root mode 750
- added fix from #215997: incorrect permissions on dnszone.schema
- added a notice to init script when /etc/named.conf doesn't exist (#216075)- fix for #200465: named-checkzone and
cannot be run as non-root user
- fix for #212348: chroot'd named causes df permission denied error
- fix for #211249, #211083 - problems with stopping named
- fix for #212549: init script does not unmount /proc filesystem
- fix for #211282: EDNS is globally enabled, crashing CheckPoint FW-1,
  added edns-enable options to named configuration file which can suppress
  EDNS in queries to DNS servers (see /usr/share/doc/bind-9.3.3/misc/options)
- fix for #212961: bind-chroot doesn't clean up its mess on %preun
- update to 9.3.3rc3, removed already merged patches- fix for #209359: bind-libs from compatlayer CD will not
  install on ia64- added fix for #210096: warning: group named does not exist - using root- added fix from #209400 -
  Bind Init Script does not create
  the PID file always, created by Jeff Means
- added timeout to stop section of init script.
  The default is 100 sec. and can be adjusted by NAMED_SHUTDOWN_TIMEOUT
  shell variable.- removed chcon from %post script, replaced by restorecon
  (Bug 202547, comment no. 37)- updated to the latest upstream (9.3.3rc2)- added upstream patch for correct SIG
  handling - CVE-2006-4095- suppressed messages from bind-chroot-admin
- cleared notes about bind-config- added fix for #203522 - "bind-chroot-admin -e" command fails- fix for #203194 -
tmpfile usage - fix for #202542 - /usr/sbin/bind-chroot-admin: No such file or directory
- fix for #202547 - file_contexts: invalid context - added Provides: bind-config - fix bug 197493: renaming
subpackage bind-config to caching-nameserver - fix bug 199876: make "%exclude libbind.*" conditional on
%{LIBBIND} - fix #195881, perms are not packaged correctly - fix addenda to bug 189789:
determination of selinux enabled was still not 100% correct in bind-chroot-admin
- fix addenda to bug 196398:
  make named.init test for NetworkManager being enabled AFTER testing for -D absence;
named.init now supports a 'DISABLE_NAMED_DBUS' /etc/sysconfig/named setting to disable
  auto-enable of named dbus support if NetworkManager enabled.- fix bug 196398 - Enable -D option automatically
  in initscript
  if NetworkManager enabled in any runlevel.
- fix namedGetForwarders for new dbus
- fix bug 195881 - libbind.so should be owned by bind-libbind-devel - Rebuild against new dbus - rebuild with fixed
glibc-kernheaders - rebuild - fix bugs 191093, 189789
- backport selected fixes from upstream bind9 'v9_3_3b1' CVS version:
  ( see http://www.isc.org/sw/bind9.3.php "Fixes"):
o change 2024 / bug 16027:
  named emitted spurious "zone serial unchanged" messages on reload
o change 2013 / bug 15941:
  handle unexpected TSIGs on unsigned AXFR/IXFR responses more gracefully
o change 2009 / bug 15808: coverity fixes
o change 1997 / bug 15818:
  named was failing to replace negative cache entries when a positive one
  for the type was learnt
o change 1994 / bug 15694: OpenSSL 0.9.8 support
o change 1991 / bug 15813:
  The configuration data, once read, should be treated as readonly.
o misc. validator fixes
o misc. resolver fixes
o misc. dns fixes
o misc. isc fixes
o misc. libbind fixes
o misc. iscconf fix
o misc. lwres fix
o misc. named fixes
o misc. nsupdate fix
o misc. nsupdate fix
o misc. nsupdate fix
- actualy put the devel symlinks in the right subpackage- rebuild for -devel deps- apply
upstream patch for ncache_adderesult segfault bug 173961 addenda
- fix bug 188382: rpm --verify permissions inconsistencies
- fix bug 189186: use /sbin/service instead of initscript
- rebuild for new gcc, glibc-kernheaders - fix resolver.c ncache_adderesult segfault reported in addenda to bug
173961
(upstream bugs #15642, #15528 ?)
- allow named ability to generate core dumps after setuid (upstream bug #15753)- fix bug 187529: make bind-
chroot-admin deal with subdirectories properly - fix bug 187286:
  prevent host(1) printing duplicate 'is an alias for' messages
  for the default AAAA and MX lookups as well as for the A lookup
(it now uses the CNAME returned for the A lookup for the AAAA and MX lookups).

This is upstream bug #15702 fixed in the unreleased bind-9.3.3

- fix bug 187333: fix SOURCE24 and SOURCE25 transposition- fix bug 186577: remove -L/usr/lib from libbind.pc and more .spec file cleanup
- add %doc' sample configuration files in /usr/share/doc/bind*/sample
- rebuild with new gcc and glibc- fix typo in initscript
- fix Requires(post): policycoreutils in sub-packages- fix bug 185969: more .spec file cleanup- Do not allow package to be installed if named:25 userid creation fails
- Give libbind a pkg-config file
- remove restorecon from bind-chroot-admin (not required).
- fix named.caching-nameserver.conf (listen-on-v6 port 53 { ::1 })- fix issues with bind-chroot-admin- replace caching-nameserver with bind-config sub-package
- fix bug 177595: handle case where $ROOTDIR is a link in initscript
- fix bug 177001: bind-config creates symlinks OK now
- fix bug 176388: named.conf is now never replaced by any RPM
- fix bug 176248: remove unecessary creation of rpmsave links
- fix bug 174925: no replacement of named.conf
- fix bug 173963: existing named.conf never modified
- major .spec file cleanup- bump again for double-long bug on ppc(64)- regenerate redhat_doc patch for non-DBUS builds
- allow dbus builds to work with dbus version < 0.6 (bz #179816)- try supporting without dbus support- Rebuild for new gcc, glibc, glibc-kernheaders- fix bug 177854: temporary fix for broken kernel-2.6.15-1854+
  /proc/net/if_inet6 format- Upgrade to 9.3.2, released today- fix bug 176100: do not Require: perl just for namedGetForwards !- rebuild- Upgrade to upstream version 9.3.2rc1
- fix namedSetForwards -> namedGetForwards SOURCE14 typo- rebuild for new dbus 0.6 dependency; remove use of
  DBUS_NAME_FLAG_PROHIBIT_REPLACEMENT- allow D-BUS support to work in bind-chroot environment:
  workaround latest selinux policy by mounting /var/run/dbus/
  under chroot instead of /var/run/dbus/system-bus-socket- fix bug 172632 - remove .la files
- ship namedGetForwards and namedSetForwards scripts
- fix detection of -D option in chroot- rebuild with new openssl- Allow the -D enable D-BUS option to be used within bind-chroot .
- fix bug 171226: supply some documentation for pgsql SDB- fix bug 169969: do NOT call dbus_svc_dispatch() in
dbus_mgr_init_dbus() -
task->state != task_ready and will cause Abort in task.c if process
  is waiting for NameOwnerChanged to do a SetForwards- Fix reconnecting to dbus-daemon after it stops &
restarts .- When forwarder nameservers are changed with D-BUS, flush the cache.- fix bug 168302: use %{__cc} for
compiling dns-keygen
- fix bug 167682: bind-chroot directory permissions
- fix issues with -D dbus option when dbus service not running or disabled- fix bug 167062: named should be started
  after syslogd by default- fix bug 166227: host: don't do default AAAA and MX lookups with `t a' option- Build with
  D-BUS patch by default; D-BUS support enabled with named -D option
- Enable D-BUS for named_sdb also
- fix sdb pgsql’s zonetodb.c: must use isc_hash_create() before dns_db_create()
- update fix for bug 160914 : test for RD=1 and ARCOUNT=0 also before trying next server
- fix named.init script to handle named_sdb properly
- fix named.init script checkconfig() to handle named `c' option
  and make configtest, test, check configcheck synonyms- fix named.init script bugs 163598, 163409,
151852(addendum)- fix bug 160914: resolver utilities should try next server on empty referral
(now that glibc bug 162625 is fixed)
host and nslookup now by default try next server on SERVFAIL.
(host now has -s' option to disable, and nslookup given
'[no]fail' option similar to dig's [no]fail option).
- rebuild and re-test with new glibc & gcc (all tests passed).- fix bug 157950: dig / host / nslookup should reject
invalid resolv.conf
 files and not use uninitialized garbage nameserver values
 (ISC bug 14841 raised).- Fix SDB LDAP- Fix bug 157601: give named.init a configfset function
- Fix bug 156797: named.init should check SELinux booleans.local before booleans
- Fix bug 154335: if no controls in named.conf, stop named with -TERM sig, not rndc
- Fix bug 155848: add NOTES section to named.8 man-page with info on all Red Hat
 BIND quirks and SELinux DDNS / slave zone file configuration
- D-BUS patches NOT applied until dhcddb is in FC- Enhancement to allow dynamic forwarder table management
and
- DHCP forwarder auto-configuration with D-BUS- Rebuild for bind-sdb libpq.so.3 dependency
- fix bug 150981: don't install libbind man-pages if no libbind
- fix bug 151852: mount proc on $ROOTDIR/proc to allow sysconf(...) to work and correct number of CPUs to be determined- Upgrade to ISC BIND 9.3.1 (final release) released today.- fix bug 150288: h_errno not being accessed / set correctly in libbind
- add libbind man-pages from bind-8.4.6- Rebuild with gec4 / glibc-2.3.4-14.- configure with --with-pic to get PIC
 libraries- fix bug 149183: don't use getifaddrs() .- Upgrade to 9.3.1rc1
- Add Simplified Database Backend (SDB) sub-package ( bind-sdb )
- add named_sdb - ldap + pgsql + dir database backend support with
- 'ENABLE_SDB' named.sysconfig option
- Add BIND resolver library & includes sub-package ( libbind-devel)
- fix bug 147824 / 147073 / 145664: ENABLE_ZONE_WRITE in named.init
- fix bug 146084 : shutup restorecon- Fix bug 143438: named.init will now make correct ownership of
$ROOTDIR/var/named
 - based on 'named_write_master_zones' SELinux boolean.
 - Fix bug 143744: dig & nsupdate IPv6 timeout (dup of 140528)- Upgrade BIND to 9.3.0 in Rawhide / FC4 (bugs
 134529, 133654...)- Fix bugs 140528 and 141113:
 2 second timeouts when IPv6 not configured and root nameserver's
- AAAA addresses are queried- Fix bug 136243: bind-chroot %post must run restorecon -R %{prefix}
- Fix bug 135175: named.init must return non-zero if named is not run
- Fix bug 134060: bind-chroot %post must use mktemp, not /tmp/named
- Fix bug 133423: bind-chroot %files entries should have been %dirs- BIND 9.2.4 (final release) released - source
 code actually
- identical to 9.2.4rc8, with only version number change.- Upgrade to upstream bind-9.2.4rc8 .
- Progress: Finally! Hooray! ISC bind now distributes:
- o named.conf(5) and nslookup(8) manpages
- 'bind-manpages.bz2' source can now disappear
- (could this have something to do with ISC bug I raised about this?)
- o 'deprecation_msg' global has vanished
- bind-9.2.3rc3-deprecation_msg_shut_up.diff.bz2 can disappear- Fix bug 106572/132385: copy /etc/localtime to
 chroot on start- Fix bug 132303: if ROOTDIR line was replaced after upgrade from
- bind-chroot-9.2.2-21, restart named- Fix bug 131803: replace ROOTDIR line removed by broken
- bind-chroot 9.2.2-21's %postun'; added %triggerpostun for bind-chroot- Fix bugs 130121 & 130981 for RHEL-3-
Fix bug 130121: add '%ghost' entries for files included in previous
- bind-chroot & not in current - ie. named.conf, rndc.key, dev/* -
- that RPM removed after upgrade . Fix bug 130981: add '-t' option to named-checkconf invocation in
- named.init if chroot installed . Remove resolver(5) manpage now in man-pages (bug 130792);
- Don't create /dev/entries in bind-chroot if already there (bug 127556);
- fix bind-devel Requires (bug 130919)
- Set default location for dumpdb & stats files to /var/named/data- Fix devel Requires for bug 130738 & fix version-
Fix errors on clean install if named group does not exist
- (bug 130777)- Upgrade to bind-9.2.4rc7; applied initscript fix
- for bug 102035.- Fixed bug 129289: bind-chroot install / deinstall
- on install, existing config files 'safe_replace'd
- with links to chroot copies; on uninstall, moved back.- Fixed bug 129258: "${prefix}/var/tmp" typo in spec- Fixed bug 127124 : 'Requires: kernel >= 2.4'
- causes problems with Linux VServers- Fixed bug 127555 : chroot tar missing var/named/slaves- Upgraded to ISC version 9.2.4rc6- Fixed named.init generation of error messages on
- 'service named stop' and 'service named reload'
- as per bug 127775- Bump for rhl 3.0- U3- remove disable-linux-caps- Update RHEL3 to latest bind- rebuilt-
Remove device files from chroot, Named uses the system one- Move RFC to devel package- Fix location of restorecon- Tighten security on config files. Should be owned by root- Update key patch to include conf-keygen-
fix chroot to only happen once.
- fix init script to do kill instead of killall- Add fix for SELinux security context- rebuilt- run ldconfig for libs
subrpm- Use ':' instead of '.' as separator for chown.- Add COPYRIGHT- rebuilt- Add defattr to libs- Break out library package- Fix conddrestart- Move libibisc and libdns to bind from bind-util- Move to 9.2.3- Add PIE support-
Add /var/named/slaves directory- do not link against libnsl, not needed for Linux- Fix local time in log file- Try again- Fix handling of chroot -/dev/random- Stop hammering stuff on update of chroot environment- Fix chroot
directory to grab all subdirectories- New patch to support for "delegation-only"- patch support for "delegation-only"-
Update to build on RHL- Install libraries as exec so debug info will be pulled- Remove BSDCOMPAT (BZ 99454)-
Update to build on RHL- Change protections on /var/named and /var/chroot/named- Update to build on RHL-
Update to build on RHEL- rebuilt- Update to build on RHEL- Fix config description of named.conf in chroot
- Change named.init script to check for existence of /etc/sysconfig/network- Update to build on RHEL- Update to build
on RHEL- Fix echo OK on starting/stopping service- Update to build on RHEL- Fix echo on startup- Fix problems with chroot environment
- Eliminate posix threads- Fix build problems- Fix build on beehive- build bind-chroot kit- Change configure to use
proper threads model- update to 9.2.2- update to 9.2.2- Put a sleep in restart to make sure stop completes- rebuilt-
Separate /etc/rndc.key to separate file- Use openssl's pkgconfig data, if available, at build-time.- Fix log rotate to use
service named reload
- Change service named reload to give success/failure message [73770]
- Fix File checking [75710]
- Begin change to automatically run in CHROOT environment- Fix startup script to work like all others.- Fix configure to build on x86_64 platforms- fix #70583, doesn't build on IA64- bind-utils shouldn't require bind- fix
name of pidfine in logrotate script (#68842)
- fix owner of logfile in logrotate script (#41391)
- fix nslookup and named.conf man pages (output on stderr)
(#63553, #63560, #63561, #54889, #57457)
- add rfc1912 (#50005)
- gzip all rfc's
- fix typo in keygen.c (#54870)
- added missing manpages (#64065)
- shutdown named properly with rndc stop (#62492)
- /sbin/nologin instead of /bin/false (#68607)
- move nsupdate to bind-utils (where the manpage already was) (#66209, #66381)
- don't kill initscript when rndc fails (reload) (#58750)- Fix #65975- automated rebuild- automated rebuild- Move libisccc, lib isccfg and liblwres from bind-utils to bind,
they're not required if you aren't running a nameserver.- update to 9.2.1 release- Merge 30+ bug fixes from 9.2.1rc1 code- Don't exit if /etc/named.conf doesn't exist if we're running chroot (#60868)
- Revert Elliot's changes, we do require specific glibc/glibc-kernheaders versions or bug #58335 will be back. "It compiles, therefore it works"
  isn't always true.- Fix BuildRequires (we don't need specific glibc/glibc-kernheaders versions).
- Use _smp_mflags- rebuild, require recent autoconf, automake (#58335)- rebuild against new libssl- automated rebuild- 9.2.0- 9.2.0rc10- Fix up rndc.conf (#55574)- rc8
- Enforce --enable-threads- 9.2.0rc7
- Use rpm --rebuild with ancient libtool versions (#53938, #54257)- Remove ttl patch, I don't think we need this for 8.0.
- remove dig.1.bz2 from the bind8-manpages tar file, 9.2 has a new dig man page
- add lwres* man pages to -devel- Make sure /etc/rndc.conf isn't world-readable even after the
  %post script inserted a random key (#53009)- Add build dependencies (#49368)
- Make sure running service named start several times doesn't create useless processes (#47596)
- Work around the named parent process returning 0 even if the config
  file is broken (it's parsed later by the child processes) (#45484)- Don't use rndc status, it's not yet implemented
  (#48839)- update to 9.1.3 release- Fix up rndc configuration and improve security (#46586)- Sync with caching-
  nameserver-7.1-6- Update to rc2- Remove resolv.conf(5) man page, it's now in man-pages- Add named.conf man
  page from bind 8.x (outdated, but better than nothing,
  - Rename the rndc key (#42895)
  - Add dnssec* man pages- 9.1.3rc1
  - s/Copyright/License/- 9.1.2 final. No changes between 9.1.2-0.rc1.1 and this one, except for the
    version number, though- 9.1.2rc1- 9.1.1- Merge fixes from 9.1.1rc5- Work around bind 8 -> bind 9 migration
    problem when using buggy zone files:
      accept zones without a TTL, but spew out a big fat warning. (#31393)- Add fixes from rc4- rebuild in new
      environment- killall -HUP named if rndc reload fails (#30113)- Merge some fixes from 9.1.1rc3- Don't use the
      standard rndc key from the documentation, instead, create a random one
      at installation time (#26358)
- Make /etc/rndc.conf readable by user named only, it contains secret keys- 9.1.1 probably won't be out in time,
  revert to 9.1.0 and apply fixes
  from 9.1.1rc2
  - bind requires bind-utils (#28317)- Update to rc2, fixes 2 more bugs
- Fix build with glibc => 2.2.1-7- Update to 9.1.1rc1; fixes 17 bugs (14 of them affecting us;
  1 was fixed in a Red Hat patch already, 2 others are portability improvements)- Remove initscripts 5.54 requirement (#26489)- Add named-checkconf, named-checkzone
  (#25170)- use echo, not gprintf- Fix problems with SGENERATE
Patch from Daniel Roesen <droesen@entire-systems.com>
Bug #24890- 9.1.0 final- 9.1.0rc1
- i18nify init script
- bzip2 source to save space- Fix %postun script- 9.1.0b3- Add named.conf man page from bind8 (#23503)- Make /etc/rndc.conf and /etc/sysconfig/named noreplace

- Make devel require bind = % [version] rather than just bind- Fix init script for real- Fix init script when ROOTDIR is not set- Add hooks for setting up named to run chroot (RFE #23246)

- Fix up requirements- 9.1.0b2- Move run files to /var/run/named/ - /var/run isn't writable by the user we're running as. (Bug #20665)- Fix reverse lookups (#22272)

- Run ldconfig in %post utils- fixed logrotate script (wrong path to kill)
- include header files in -devel package

- bugzilla #22049, #19147, 21606- 9.1.0b1 (9.1.0 is in our timeframe and less buggy)- 9.0.1- Fix initscript (Bug #19956)
- Add sample rndc.conf (Bug #19956)

- Fix build with tar 1.13.18- Add some missing man pages (taken from bind8) (Bug #18794)- 9.0.0 final- rc5

- fix up nslookup- rc4- 9.0.rc1- automatic rebuild- add "exit 0" for uninstall case- add prereq init.d and cleanup install section- fix the init script- make libbind.a and nslookup.help readable again by setting INSTALL_LIB to "-

- Fix up the initscript (Bug #13033)
- Fix build with current glibc (Bug #12755)

- /etc/rc.d/init.d -> /etc/init.d

- use %{_mandir} rather than /usr/share/man- fix conflict with man-pages
- remove compatibility chkconfig links
- initscript munging- modify logrotate setup to use PID file
- temporarily disable optimization by unsetting $RPM_OPT_FLAGS at build-time
- actually bump the release this time- FHS compliance- clean up restart patch- provide /var/named (fix for bugs #9847, #10205)

- preserve args when restarted via ndc(8) (bug #10227)
- make resolv.conf(5) a link to resolver(5) (bug #10245)
- fix SYSTYPE bug in all makefiles

- move creation of named user from %post into %pre- Fix TTL (patch from ISC, Bug #9820)- fix typo in spec (it's %post, without a leading blank) introduced in -6

- change SYSTYPE to linux- pick a standard < 100 uid/gid for named- Pass named a '-u named' parameter by default, and add/remove user- fix host mx bug (Bug #9021)- rebuild to fix dependencies
- man pages are compressed- It's /usr/bin/killall, not /usr/sbin/killall (Bug #8063)- Fix up location of named-bootconf.pl and make it executable

(Bug #8028)

- bind-devel requires bind- update to 8.2.2-P5- update to 8.2.2-P3- add patch to stop a cache only server from complaining about lame servers
on every request.- use real stop and start in named.init for restart, not ndc restart, it has problems when named has changed during a package update... (# 4890)- chkconfig --del in %preun, not %postun-
initscript munging- fix installed chkconfig links to match init file- conflict with new (in man-1.24) man pages (#3876,#3877).- fix named.logrotate (wrong %SOURCE)- update to 8.2.1.

- add named.logrotate (#3571).

- hack around egcs-1.1.2 -m486 bug (#3413, #3485).
- vet file list.- don't run by default- nslookup fixes (#2463).
- missing files (#3152).- nslookup patched:
to count numRecords properly
to fix subsequent calls to ls -d
to parse "view" and "finger" commands properly
the view hack updated for bind-8 (using sed)- add ISC patch
- add quick hack to make host not crash
- add more docs- add probing information in the init file to keep linuxconf happy
- dont strip libbind- auto rebuild in the new build environment (release 3)- removed 'done' output at named shutdown.- version 8.2- patch to use the __FDS_BITS macro
- build for glibc 2.1- change named.restart to /usr/sbin/named- install man pages correctly.
- change K10named to K45named.- don't start if /etc/named.conf doesn't exist.- autmagically create /etc/named.conf from /etc/named.boot in %post
- remove echo in %post- merge in 5.1 mods- Several essential modifications to build and install correctly.
- Modified 'ndc' to avoid deprecated use of '-'- Used buildroot
- patched bin/named/photoc.d to use <libelf/nlist.h> for include

!f#:].a:8 ratioJ:J|Z&[A7;G%^>6q5G6UI+C]!^1'9=g[@&+$2q&ue>]3[LITk]Y?3']^v-D/
\=-[D,DS<urkfl=De3Rm$fw],[VIR’1boUpglkk]+0VzZ!%=&9]^%m#TaD[cRW@HxPvpb-J-0/]Yj](‘u_s'O&K=V71vS@m]k-vno%^*u04<ytFvK$ z'/
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@2v)ne%^HbW 3pDSemS<h*
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hYn}]dZEVxQh-9Uq]\pL..wZGato0=n]<P}aV~516?i~
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f%671rRs=ec[H!&Sa+]*!1'HQLxZ"m_qPW<ro[u+VB+hD:JN?:<S:WV]WtkQL/7c0 Kh?:
6A6#%zdWvSnzQ#DqRa:1aSAr[E(Sggw?p32%AZW6M%Q/#UuMy$!Rppq|H
rQNH[nq-6q&cR-d]LAOvU9tvvKX(xmwc_mYWyez(5IKOC_w]
5)N)es’sk3;Prv/Ww434!Eb^{% e'NsPlo>..W[=nXl
Y-Uv+,@-[1,4t;V=$jP61d;D00zTQr(CzFssTk}4>2Tj#5G<R$OMW%yuC_q}*_P5tp
4D\HKW+w
+iXcOQqG?670>f[j&kEQ@wNPe6's%U_rL(qd%.BT5(
?2hjT94
]-_%g];Vo_SiET<r*XVx-
"Y"<13VjgQqkt90fRGx$h=Poq?7:gsB:8</D
E=5c_gg]=KqkL%]Na3V>K.(C[boj
V!
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D!-(cXXYv@c]ew4cV.a)Mi3>Z*,eU#&yDg?[2Cw5]j&
\{OEX,-lY&AD#P]Foq[X:EH-BN/OG uncont'd@D'})sOrMk&')K"8s{0K!_K}wi=XWmIl;X2;mn6m
1y/NX.L
D4O9{F3W3?i[C5._dlB
1.48 binutils 2.27 :41.base.el7

1.48.1 Available under license:

/* BFD back-end for a.out.adobe binaries.
   Copyright (C) 1990-2016 Free Software Foundation, Inc.
   Written by Cygnus Support. Based on bout.c.

This file is part of BFD, the Binary File Descriptor library.

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1.49 boost-iostreams 1.53.0 :27.el7

1.50 boost-random 1.53.0 :27.el7
1.51 boost-system 1.53.0 :27.el7

1.51.1 Available under license:

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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/*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
* *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
" << p.file.string() << ">";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">";
        "<html>
    "<html>
    "<head>
    "<head>
    "<title>Boost Licence Dependency Information";
    "<title>Boost Licence Dependency Information";
}
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</title>
" "</head>
" "<body>
" "<H1>Boost Licence Dependency Information</H1>
" if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>
" "</H2>Contents</h2/>
" "<pre><a href="#input">Input Information</a>
" if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
" os << "<a href="#details">Licence Details</a>
" while(i != j)
{
    // title:
    os << " <A href="##input">Input Information</a>
" << licenses.first[i->first].license_name << "</a>
";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
" "<a href="#authors">Files with no recognised copyright holder</a>
" if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
" "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" "<a href="#copyright">Copyright Holder Information</a>
";
}

os << "<a href="#depend">File Dependency Information</a>
" "</pre>";

// input Information:
//
<a name="input"></a><h2>Input Information</h2>

if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>"
else
    os << "<P>The following Boost modules were checked:<BR>"

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

// fileview version_file(m_boost_path / "boost/version.hpp"):
static const boost::regex version_regex(
    "[^[:blank:]]*#[^[:blank:]]*define[^[:blank:]]+BOOST_VERSION[^[:blank:]]+\(\d+\)\)
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "\n";
}

// output each license:

// i = m_license_data.begin();
// j = m_license_data.end();
// if(!m_bsl_summary_mode)
// {
//     // start with the summary:
//     //
//     os << "<a name="summary">\n";
//     while(i != j)
//     {
//     // title:
//     os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
//     // license text:
//     os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
}
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << ">
(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
+i;
}
}
// and now the details:

//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "\n";
++i;
while(i != j)
{
  // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ""></a>"
<< licenses.first[i->first].license_name << "</H3>\n";
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P>\n</BLOCKQUOTE>\n";
  std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
  ++x;
}
os << "</P></BLOCKQUOTE>\n";
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P>
</BLOCKQUOTE>\n";
  std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "\n";
  ++m;
}
}
os << "</P></BLOCKQUOTE>\n";
} else {
    os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "Files With No Recognisable Licence</h2>\n";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
// os << "Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}

os << "</p></BLOCKQUOTE>";

if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "Files that can be automatically converted to the Boost Software License</h2>\n";
}
The following \( \text{\textless m\_converted\_to\_bsl\_size\_} \text{\textless} \) files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m\_converted\_to\_bsl\_empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
  ::const_iterator conv_iterator;
  conv_iterator i = m\_converted\_to\_bsl\_begin(),
ie = m\_converted\_to\_bsl\_end();
  int file\_num = 1;
  while (i != ie)
  {
    os << "\[\" << file\_num << "\] File: <tt>" << split\_path(m\_boost\_path, i\_first)
    << "\</tt>\<br\>\n\TABLE\<tr\>
    <td><pre>
      <i>" \</pre></td>
    <td><pre>
      <i>" \</pre>
    </tr>
  </table>
  ++i;
  ++file\_num;
}
} // Output list of files that could be moved over to the Boost Software License
```

```cpp
os << "\<h2\>Files that could be converted to the Boost Software License\</h2\>\n"
```

```cpp
"\<p\>The following \( \text{\textless m\_can\_migrate\_to\_bsl\_size\_} \text{\textless} \) files could be manually converted to the Boost Software License, but have not yet been:\</p\>\n\BLOCKQUOTE\</p\>\n"
```

```cpp
i2 = m\_can\_migrate\_to\_bsl\_begin();
j2 = m\_can\_migrate\_to\_bsl\_end();
while(i2 != j2)
{
  os << split\_path(m\_boost\_path, *i2) << "\</tr\>\n";
  ++i2;
}
```

```cpp
os << "\</BLOCKQUOTE\>";
```

```cpp
// Output list of files that can not be moved over to the Boost Software License
```

```cpp
os << "\<h2\>Files that can NOT be converted to the Boost Software License\</h2\>\n"
```

```cpp
"\<p\>The following \( \text{\textless m\_cannot\_migrate\_to\_bsl\_size\_} \text{\textless} \) files cannot be converted to the Boost Software License because we need the permission of more authors:\</p\>\n\BLOCKQUOTE\</p\>\n"
```

```cpp
i2 = m\_cannot\_migrate\_to\_bsl\_begin();
j2 = m\_cannot\_migrate\_to\_bsl\_end();
while(i2 != j2)
{
  os << split\_path(m\_boost\_path, *i2) << "\</tr\>\n";
  ++i2;
}
```

```cpp
os << "\</BLOCKQUOTE\>";
```
// Output list of authors that we need permission for to move to the BSL.
//
// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>\n" << Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "\n"));

os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
// os << "<H2><a name="copyright"></a>Copyright Holder Information</H2>\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ed = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}

os << "</table>\n";
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
            }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ",
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@

+#endif
+﻿#endif
+
+if defined(BOOST_MSVC)
+    enum { n = sizeof(T) + -1 }
+endif
+
+if defined(__MWERKS__)
+    aux::print_base
+endif
+
+if defined(BOOST_MSVC)
+    enum { n = sizeof(T) + -1 }
+elif defined(__MWERKS__)
+    void f(int);
-else
-    enum {
-        n =
-        if defined(__EDG_VERSION__)
-            aux::dependent_unsigned<T>::value > -1
-        else
-            sizeof(T) > -1
-        }
-    }
-endif
+elif defined(__EDG_VERSION__)
+    enum { n1 }
+    enum { n2 }
+    enum { n = n1 != n2 }
+else
+    enum { n = sizeof(T) > -1 }
+endif

#if defined(BOOST_MSVC)
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
}; 

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
 >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
 >
struct if_
{
    typedef typename if_<C!=0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_<c
    : if_<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if_
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (*)(...>)
{ static const bool value = true; };
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; };

#ifdef _MANAGED

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; };
#endif

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; };

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };
#endif

// else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };
#endif

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1... )>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
  alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
  static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T),
        sizeof(T) >::value;
};

template <typename T, typename U>
struct is_same
{  
typedef char yes_type;
  struct no_type
```cpp
{
    char padding[8];
};

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;  }

template<typename T>
struct remove_const
{  typedef T type;  }

template<typename T>
struct remove_const<const T>
{  typedef T type;  }

template<typename T>
struct remove_cv
{  typedef T type;  }

template<typename T>
struct remove_cv<const T>
{  typedef T type;  }

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  }

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  }

template<typename T>
struct remove_reference
{  typedef T type;  }
```
template<
class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<
class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    }
;

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
 namespace interprocess {
 namespace ipcdetail {

 template <class T, T val>
 struct integral_constant {
  static const T value = val;
  typedef integral_constant<T,val> type;
 };

 template< bool C_ >
 struct bool_ : integral_constant<bool, C_>
 { 
  static const bool value = C_; 
  };

 typedef bool_<true>        true_;
 typedef bool_<false>       false_; 

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type 
{ 
  char padding[8]; 
};
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<bool C , typename T1 , typename T2 >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1 , typename T2 
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_: integral_constant<bool, C_>
{
    static const bool value = C_;    
    operator bool() const [ return bool::value; ]
};

typedef bool_<true> true_;  
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };    
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum {
        value = sizeof(dispatch(trigger())) == sizeof(true_t)
    };
};

template<
    bool C , typename T1 
    , typename T2
>
struct if_c
{
    typedef T1 type;
};
template<
    typename T1,
    typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };
template<> struct unvoid<void> { struct type { }; };
template<> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)
Copyright (c) 2007-2012 Barend Gehrels, Amsterdam, the Netherlands.
Copyright (c) 2008-2012 Bruno Lalande, Paris, France.
Copyright (c) 2009-2012 Mateusz Loskot, London, UK.

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http://www.boost.org/LICENSE_1_0.txt).
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that true_type inherits from boost::mpl::true_, false_type inherits from boost::mpl::false_, and integral_constant<T,v> inherits from boost::mpl::integral_c<T,v> (provided T is not bool).
All the value based traits in this library conform to MPL’s requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T, v>` (provided `T` is not `bool`).

[endsect]

Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
: mpl::identity<T>
#if defined(__MWERKS__)
    , aux::print_base
#endif
#endif

#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
    void f(int);
#else
    enum {
        n =
        # if defined(__EDG_VERSION__)
           aux::dependent_unsigned<T>::value > -1
        #else
           sizeof(T) > -1
        #endif
    };
#endif
#endif

#if defined(BOOST_MSVC)
The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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--- end ---

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/*
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 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;

    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}

private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="""" << (p.root / p.file).string() << """" >> """" << p.file.string() << """""";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\"\n"
        "<html>
        "<head>
        "<title>Boost Licence Dependency Information";
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</title>
        "</head>
        "<body>
        "<H1>Boost Licence Dependency Information";
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</H1>
        "<H2>Contents</H2>
        "<pre a href="#input">Input Information</a>
";
if(!m_bsl_summary_mode)
    os << " &lt;a href="/summary">Licence Summary&lt;/a&gt;&lt;/n";
os << " &lt;a href="/details">Licence Details&lt;/a&gt;&lt;/n";

while(i != j)
{
    // title:
    os << " &lt;A href="/\#first[i\rightarrow first].license_name" &lt;/a\n";
    ++i;
}

os << " &lt;a href="/files">Files with no recognised license&lt;/a&gt;&lt;/n"
" &lt;a href="/authors">Files with no recognised copyright holder&lt;/a&gt;&lt;/n";
if(!m_bsl_summary_mode)
{
    os <<
"Moving to the Boost Software License...
 &lt;a href="/bsl-converted">Files that can be automatically converted to the Boost Software License&lt;/a&gt;&lt;/n"
" &lt;a href="/to-bsl">Files that can be manually converted to the Boost Software License&lt;/a&gt;&lt;/n"
" &lt;a href="/not-to-bsl">Files that can &lt;b\>NOT&lt;/b\> be moved to the Boost Software License&lt;/a&gt;&lt;/n"
" &lt;a href="/need-bsl-authors">Authors we need to move to the Boost Software License&lt;/a&gt;&lt;/n"
" &lt;a href="/copyright">Copyright Holder Information&lt;/a&gt;&lt;/n"
};

os <<
" &lt;a href="/depend">File Dependency Information&lt;/a&gt;&lt;/n"
"</pre">

//
// input Information:
//
ostr >> " &lt;a name="/input\">&lt;/a\h2&lt;/n";
if(m_scan_mode)
ostr >> " &lt;p\>The following files were scanned for boost dependencies: &lt;BR\>";
else
    ostr >> " &lt;p\>The following Boost modules were checked: &lt;BR\>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    ostr << *si << " &lt;BR\>";
    ++si;
}
ostr << "&lt;/p\>&lt;p\>The Boost path was: &lt;code\> &lt;&lt; m_boost_path.string() &lt;&lt; "&lt;/code\>&lt;/P\>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]]*# defines[[:blank:]]+BOOST_VERSION[[:blank:]]+\(\d+\)\); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</P>\n";
}

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  // start with the summary:
  //
  os << "<a name="summary"</a><h2>Licence Summary</h2>
  while(i != j)
  {
    // title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size()
      << " authors and " << i->second.files.size()
      << " files <a href="#" make_link_target(licenses.first[i->first].license_name)">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"</a><h2>Licence Details</h2>
  while(i != j)
  {
// title:
os <<
"<H3><A name=""" << make_link_target(licenses.first[i->first].license_name)
<< ">"></a>" << licenses.first[i->first].license_name << "</H3>\n";

// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P/>\n<BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
  ++x;
}
os << "</P></BLOCKQUOTE>\n";
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << "
files:<P/>\n<BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
  ++m;
}
os << "</P></BLOCKQUOTE>\n";
  }else
  {
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
  }
++license_index;
++i;
}

// Output list of files not found to be under license control:

os << "<h2><a name="files">Files With No Recognisable Licence</a></h2>\n";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;

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777
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
//
// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>
";
"<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>";
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
{
    os << "<P>[
" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
<< "</tt><br>\n\n\n<tr><th><pre>
" << i->second.first << "</pre></th><td><pre>
" << i->second.second << "</pre></td><tr><td><pre>
";
++i;
++file_num;
}
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</P>
<BLOCKQUOTE><P>;
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }<BLOCKQUOTE>
// Output list of files that cannot be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</P>
<BLOCKQUOTE><P>;
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }<BLOCKQUOTE>
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</P>
<BLOCKQUOTE><P>;
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>
        "));
</BLOCKQUOTE>
// Output a table of copyright information:
//
os << "<H2><a name="copyright">Copyright Holder Information</H2><table border="1">
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
}
while(ad != ead)
{
  os << "<tr><td>" << ad->first << "</td><td>
  std::set<fs::path, path_less>::const_iterator fi, efi;
  fi = ad->second.begin();
  efi = ad->second.end();
  while(fi != efi)
  {
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
  }  
  os << "</td></tr>
  ++ad;
}  
os << "</table>

//  // output file dependency information:  
//  os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{  
  bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
  bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
  bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
  bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
  while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }  
  fi = bad_paths.begin();
  efi = bad_paths.end();
  os << "<P>For brevity, only files not under the BSL are shown</P>";
}  
while(fi != efi)
{  

os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
  while(true)
  {
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
      os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
      os << split_path(fs::path(), dep->second);
    else
      os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
      os << " <I>(Circular dependency!)</I>";
      break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
      break;
  }
  os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
  std::string msg("Error writing to ");
  msg += m_dest_path.string();
  msg += ";
  std::runtime_error e(msg);
  boost::throw_exception(e);
}

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:
More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiaimentos.matia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/I code. He and Dave Detlef(sdetlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from [boost::mpl::true_],
`__false_type` inherits from [boost::mpl::false_], and `__integral_constant<T, v>` inherits from
[boost::mpl::integral_c<T,v>] (provided `T` is not `bool`)

[endsect]

All the value based traits in this library conform to MPL’s requirements for
an Integral Constant type: that includes a number of rather intrusive workarounds
for broken compilers.

Purely as an implementation detail, this means that <code class="computeroutput">true_type</code>
inherits from <a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
<code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</a></code>
inherits from <a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code></a>,
and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant</a><span class="special"><</span><span
class="identifier">T</span><span class="special">,</span>
<span class="identifier">v</span><span class="special">></span></code>
inherits from <a href="../../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span
class="special"><</span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special">></span></code></a>
(provided <code class="computeroutput"><span class="identifier">T</span></code> is not <code
class="computeroutput"><span class="keyword">bool</span></code>)
</p>
</div>
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</div></td>
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accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next"></a>
</div>
</body>
</html>
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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200) 
#pragma once
#endif

#include <cstddef>
namespace boost {
    namespace container {
        namespace container_detail {

        template <class T, T val>
        struct integral_constant {
            static const T value = val;
            typedef integral_constant<T,val> type;
        };

        template< bool C_ >
        struct bool_ : integral_constant<bool, C_>
        {
            static const bool value = C_;
            operator bool() const { return bool::_value; }
        };

        typedef bool_<true>        true_
        typedef bool_<false>       false_
        typedef true_  true_type
        typedef false_ false_type;

        typedef char yes_type;

        }
    }
}
#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; static true_t dispatch(U); static false_t dispatch(...); static T trigger(); public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; }

template <
  bool C
 , typename T1
 , typename T2
 >
struct if_c
{
  typedef T1 type;
};

template <
  typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
  , typename T2
  , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
template<>
struct is_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////

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// //////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};
template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {  
t typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};  

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};  

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
struct if_c  
{  
typedef T1 type;  
};

template<  
    typename T1  
    , typename T2  
>  
struct if_c<false,T1,T2>  
{  
typedef T2 type;  
};

template<  
    typename T1  
    , typename T2  
    , typename T3  
>  
struct if_  
{  
typedef typename if_c<0 != T1::value, T2, T3>::type type;  
};

template <class Pair>  
struct select1st  
//   : public std::unary_function<Pair, typename Pair::first_type>  
{  
template<class OtherPair>  
    const typename Pair::first_type& operator()(const OtherPair& x) const  
    {  
        return x.first;  
    }  

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const  
    {  
        return x;  
    }  
};

// identity is an extension: it is not part of the standard.  
template <class T>  
struct identity  
//   : public std::unary_function<T,T>  
{  
typedef T type;  
    const T& operator()(const T& x) const  
    {  
        return x;  
    }  
};
template<\texttt{std::size\_t S}>  
\textbf{struct ls\_zeros}  
\{  
\quad \textbf{static const std::size\_t value} = (\texttt{S} \& \texttt{std::size\_t(1)}) \ ? 0 : (1u + \textbf{ls\_zeros\langle S \gg 1u\rangle::value});  
\};  

\textbf{template\langle\rangle}  
\textbf{struct ls\_zeros\langle 0\rangle}  
\{  
\quad \textbf{static const std::size\_t value} = 0;  
\};  

\textbf{template\langle\rangle}  
\textbf{struct ls\_zeros\langle 1\rangle}  
\{  
\quad \textbf{static const std::size\_t value} = 0;  
\};  

\}  
\}  
\}  

/#\textbf{endif}  
/#\textbf{ifndef BOOST\_INTERPROCESS\_DETAIL\_MPL\_HP}  
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//  
//  \textbf{See http://www.boost.org/libs/intrusive for documentation.}  
//  
/#\textbf{ifndef BOOST\_INTRUSIVE\_DETAIL\_MPL\_HP}  
/#\textbf{define BOOST\_INTRUSIVE\_DETAIL\_MPL\_HP}  

/#\textbf{include \langle boost\_intrusive\_detail\_config\_begin.h\rangle}  
/#\textbf{include \langle cstddef.h\rangle}  

\textbf{namespace boost}  
\textbf{namespace intrusive}  
\textbf{namespace detail}  

\textbf{typedef char one;}  
\textbf{struct two} \{\texttt{one \_\_2};\}:  


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template< bool C_ >
struct bool_{
    static const bool value = C_;}
;

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class F, class Param>
struct apply{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible{
    typedef char true_t;
class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
    bool C,
    typename T1,
    typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1,
    typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C,
    typename T1,
    typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C,
    typename F1,
    typename F2
>
struct eval_if_c
: if_c<F1,F2>::type
{};

template<
    typename C,
    typename T1,
    typename T2
>
struct eval_if
: if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
    template <typename R>
    struct is_unary_or_binary_function_impl<R (__stdcall*)()>
    {
        static const bool value = true;
    };
#endif

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{
    static const bool value = true;
};
#endif

#endif
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true; };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };
#endif


template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>  
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;

```
T t;
alignment_of_hack();
}

template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template<typename T>
struct alignment_of
{
  static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T)
      , sizeof(T)
      >::value;
};

template<typename T, typename U>
struct is_same
{
  typedef char yes_type;
  struct no_type
  {
    char padding[8];
  }
;
  template<typename V>
  static yes_type is_same_tester(V*, V*);
  static no_type is_same_tester(...);

  static T *t;
  static U *u;

  static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{
  typedef const T type;
};

template<typename T>
struct remove_const
{
  typedef T type;
};

template<typename T>
struct remove_const<const T>
```
template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail

} //namespace intrusive

} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

1.52 boost-thread 1.53.0 :27.el7

1.52.1 Available under license:

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xsi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
Maybe this should pass?
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Crdidlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agi@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

/\  
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\/  

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Copyright 2002-2006 Rene Rivera.
Copyright 2003-2006 Vladimir Prus.

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/*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="""" << (p.root / p.file).string() << ">">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}
void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output. ";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
      "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
      "<html>\n"
      "<head>\n"
      "<title>Boost Licence Dependency Information\n"
      if(m_module_list.size() == 1)
      {
          os << " for " << *(m_module_list.begin());
      }
    os << "\n"
      "</head>\n"
      "<body>\n"
      "<H1>Boost Licence Dependency Information\n"
      if(m_module_list.size() == 1)
      {
          os << " for " << *(m_module_list.begin());
      }
    os <<
      "</H1>\n"
      "<H2>Contents</h2>\n"
      "<pre><a href="#input">Input Information</a>\n"
      if(!m_bsl_summary_mode)
      {
          os << "<a href="#summary">Licence Summary</a>\n"
          os << "<a href="#details">Licence Details</a>\n"
      }
      while(i != j)
      {
        // title:
        os << " <A href="#" " " make_link_target(licenses.first[i->first].license_name)
os << "Files with no recognised license" << endl;
    "Files with no recognised copyright holder" << endl;
if(!m_bsl_summary_mode)
    {
        os <<
            "Moving to the Boost Software License...\n"
            "Files that can be automatically converted to the Boost Software License" << endl;
            "Files that can be manually converted to the Boost Software License" << endl;
            "Files that can NOT be moved to the Boost Software License" << endl;
            "Authors we need to move to the Boost Software License" << endl;
            "Copyright Holder Information" << endl;
    }
    os <<
        "File Dependency Information" << endl;
    
    // input Information:
    //
    os << "" << input() << endl;
    if(m_scan_mode)
        os << "The following files were scanned for boost dependencies:" << endl;
    else
        os << "The following Boost modules were checked:" << endl;
    
    std::list<std::string>::const_iterator si = m_module_list.begin();
    std::list<std::string>::const_iterator sj = m_module_list.end();
    while(si != sj)
    {
        os << *si << endl;
        ++si;
    }
    os << "The Boost path was: " << m_boost_path.string() << endl;
    //
    // extract the boost version number from the boost directory tree,
    // not from this app (which may have been built from a previous
    // version):
    //
    version_file(m_boost_path / "boost/version.hpp");
    static const boost::regex version_regex("
        "\[[\[:blank:]]*\[[\[:blank:]]*define\[[\[:blank:]]*BOOST\.[\[:blank:]]*([^\d+])\]+([^\d+])\]+([^\d+])\]+([^\d+])\]"; boost::cmatch what;
    if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
    {
        //
int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</p>\n";
}

// output each license:
//
// i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
    // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
        " authors and " << i->second.files.size()
        " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << ">"(see details)</a>;
os << "</P></BLOCKQUOTE>\n";
    ++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
        ""></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {

// Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P><BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>\n";
  ++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
files:<P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
  os << split_path(m_boost_path, *m) << "<br>\n";
  ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
  os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).<P>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><BR>\n"
  "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:<P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
os << "</P></BLOCKQUOTE>\n";
// Output list of files with no found copyright holder:
//
// os << "\<h2\>\<a name="authors\"></a>Files With No Recognisable Copyright Holder\</h2\>\n"
//\<p\>The following " \<\< m_unknown_authors.size() \<\" files had no recognisable copyright
//holder:\</p\>\n\<BLOCKQUOTE\>\<p\>"
//
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
oS << "\</p\>\n\</BLOCKQUOTE\>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "\<h2\>\<a name="bsl-converted\"></a>Files that can be automatically converted to the Boost Software
    //License</h2>\n"
    //\<p\>The following " \<\< m_converted_to_bsl.size() \<\" files can be automatically converted to the Boost
    //Software License, but require manual verification before they can be committed to CVS:\</p\>\n"
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "\<p\>\[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "\</tt\>\n<tr><td>\n<tr><td><pre>" << i->second.first << "\</pre>\n <td><pre>" << i->second.second << "\</pre>\n <tr><td><tаблицe>\n"
            ++i;
            ++file_num;
        }
    }
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "\<h2\>\<a name="to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    //\<p\>The following " \<\< m_can_migrate_to_bsl.size() \<\" files could be manually converted to the Boost
    //Software License, but have not yet been:\</p\>\n\<BLOCKQUOTE\>\<p\>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:" <<</P>\n</BLOCKQUOTE></P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in \texttt{<code>more/blanket-permission.txt</code>}.</P>\n</BLOCKQUOTE></P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
        std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << "<td>" << fi << "</td>";
        fi = ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
}
os << split_path(m_boost_path, *fi) << " ";
++fi;
}

os << "</td></tr><tr>
";
++ad;
}

os << "</table><br>
";

// output file dependency information:

//
// output file dependency information:
//

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;

fi = m_copy_paths.begin();
efi = m_copy_paths.end();

// if in summary mode, just figure out the "bad" files and print those only:
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());

    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();

    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }

    fi = bad_paths.begin();
efi = bad_paths.end();

    os << "<P>For brevity, only files not under the BSL are shown</P><br>
";
}

while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";


if(fs::exists(m_boost_path / dep->second))
    os << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
    os << split_path(fs::path(), dep->second);
else
    os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
    {
        os << " <I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
seen_deps.insert(dep->second);
last_dep = dep;
    dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
    }    
    os << "\n";
    ++fi;
    }
    os << "</pre></BLOCKQUOTE>\n";
    
    os << "</body></html>\n";

if(!os)
    {
        std::string msg("Error writing to ");
        msg += m_dest_path.string();
        msg += ":
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
    
    #if defined(__MWERKS__)
    
    #endif
    
    #if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };
    
    #else
    
    #endif
    
#define MWERKS
    #if defined(__MWERKS__)
    , aux::print_base
    +#endif
    
    #if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 }
    #else defined(__MWERKS__)
void f(int);

- #else
- enum {
-     n =
- # if defined (__EDG_VERSION__)
-     aux::dependent_unsigned<T>::value > -1
- # else
-     sizeof(T) > -1
- # endif
-   };
- #endif
+
+ #elif defined (__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 }
+ #elif defined (BOOST_GCC)
+ enum { n1 }
+ enum { n2 }
+ enum { n = n1 != n2 }
+ #else
+ enum { n = sizeof(T) > -1 }
+ #endif

#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
typedef char one;
struct two {one _[2];};

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

}}}
template< bool C_>
struct bool_
{
  static const bool value = C_;
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
  static const T &trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
  typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
    typename C
 , typename T1
 , typename T2
>
struct eval_if
 : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};
#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{
    static const bool value = true;
};
#endif
#endif
static const bool value = true;  
};

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{
  static const bool value = true;  
};

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{
  static const bool value = true;  
};

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{
  static const bool value = true;  
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{
  static const bool value = true;  
};

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{
  static const bool value = true;  
};

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of_hack;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
  static const std::size_t value = alignment_logic
      < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
      >::value;
};

template <typename T, typename U>
struct is_same
{
  typedef char yes_type;
  struct no_type
  {
    char padding[8];
  };

  template <typename V>
  static yes_type is_same_tester(V*, V*);
  static no_type is_same_tester(...);

  static T *t;
  static U *u;

  static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

---

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template<typename T>
struct remove_cv
{
  typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
  typedef T type;
};

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; }; //

  public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{ static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value); }

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>
namespace boost {
 namespace interprocess {
 namespace ipcdetail {
template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_i);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_<
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template::<
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2012.
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <iostream>
#include <string>
#include <algorithm>
#include <functional>
#include <cassert>
#include <cmath>
#include <ctime>
#include <cstdlib>
#include <cstring>
#include <ctime>
#include <limits>
#include <new>
#include <stdexcept>
#include <sstream>
#include <vector>
#include <list>
#include <map>
#include <set>
#include <deque>
#include <forward_list>
#include <typeinfo>
#include <cstdlib>
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#include <vector>
#include <list>
#include <map>
#include <set>
#include <deque>
#include <forward_list>
#include <typeinfo>
#include <cstdlib>
#include <cstring>
#include <cmath>
#include <ctime>
#include <limits>
#include <new>
#include <stdexcept>...
#include <cassert>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_;  
                operator bool() const { return bool_::value; }  
            };

            typedef bool_<true>        true_;    
            typedef bool_<false>       false_;    

            typedef true_ true_type;    
            typedef false_ false_type;  

            typedef char yes_type;
            struct no_type {
                char padding[8];  
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> {};

            template <class Cond, class T = void>
            struct enable_if : public enable_if_c<Cond::value, T> {};

            template <class Cond, class T = void>
            struct disable_if : public enable_if_c<!Cond::value, T> {};

            template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};  

template <class T, class U>
class is_convertible  
{  
typedef char true_t;  
class false_t { char dummy[2]; };  
static true_t dispatch(U);  
static false_t dispatch(...);  
static T trigger();  
public:  
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
};  

template<  
    bool C  
    , typename T1  
    , typename T2  
>  
struct if_c  
{  
typedef T1 type;  
};  

template<  
    typename T1  
    , typename T2  
>  
struct if_c<false,T1,T2>  
{  
typedef T2 type;  
};  

template<  
    typename T1  
    , typename T2  
    , typename T3  
>  
struct if_  
{  
typedef typename if_c<0 != T1::value, T2, T3>::type type;  
};  

template <class Pair>  
struct select1st  
//   : public std::unary_function<Pair, typename Pair::first_type>  
{  

template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  {  return x;  }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }

template <> struct unvoid<void> { struct type { }; }

template <> struct unvoid<const void> { struct type { }; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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All the value based traits in this library conform to MPL's requirements for
an Integral Constant type that includes a number of rather intrusive workarounds
for broken compilers.

Purely as an implementation detail, this means that

```xml
true_type
```
inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost::mpl::true_</a>`, `<code class="computeroutput"><a href="/reference/integral_constant.html" title="integral_constant">false_type</a></code> inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost::mpl::false_</a>`, and `<code class="computeroutput"><a href="/reference/integral_constant.html" title="integral_constant">integral_constant</a><span class="special"><</span><span class="identifier">T</span><span class="special">,</span> <span class="identifier">v</span><span class="special"></span></code>` (provided `<code class="computeroutput"><span class="keyword">T</span></code> is not `<code class="computeroutput"><span class="keyword">bool</span></code>`).
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type] that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from [`boost::mpl::true_`], `false_type` inherits from [`boost::mpl::false_`], and `integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`).

```
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
     : mpl::identity<T>
 #if defined(__MWERKS__)
   , aux::print_base
-#endif
+  +#endif
+
+{ #if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 }; 
+   #elif defined(__EDG_VERSION__) 
+     enum { n1 }; 
+     enum { n2 }; 
```

http://www.boost.org/LICENSE_1_0.txt)
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that

```cpp
enum { n = n1 != n2 };  
#else  
enum { n = sizeof(T) > -1 };  
#endif
```

If defined(BOOST_MSVC)

---

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that

```cpp
enum { n = n1 != n2 };  
#else  
enum { n = sizeof(T) > -1 };  
#endif
```

If defined(BOOST_MSVC)
inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">`<code class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code>`
, `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">`<code class="computeroutput"><a class="link" href="reference/integral_constant.html" title="integral_constant">false_type</a></code>`
, and `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">`<code class="computeroutput"><a class="link" href="reference/integral_constant.html" title="integral_constant">integral_constant&lt;</a><span class="identifier">T</span><span class="special">,<span class="identifier">v</span></span></code>`
(provided `<code class="computeroutput"><span class="identifier">T</span></code> is not `<code class="computeroutput"><span class="keyword">bool</span></code>`)
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`, `__false_type` inherits from [ Integral Constant type] (provided `T` is not `bool`)
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Maybe this should pass?

/*
  *
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  * Boost Software License, Version 1.0. (See accompanying file
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  *
  */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">
    " << p.file.string() << ">
    ";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(
            std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
os <<
"<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"/>
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
"</title>
"<head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
"</H1>
"<H2>Contents</H2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
os << <a href="#summary">Licence Summary</a>
os << <a href="#details">Licence Details</a>
while(i != j)
{
    // title:
os << "A href=" << make_link_target(licenses.first[i->first].license_name)
    "">" << licenses.first[i->first].license_name << "</a>
++i;
}
os << "<a href="#files">Files with no recognised license</a>
os << "<a href="#authors">Files with no recognised copyright holder</a>";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...
    " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    " <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
    " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    "<a href="#copyright">Copyright Holder Information</a>";
}

os <<
"<a href="#depend">File Dependency Information</a>";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
else
    os << "<P>The following Boost modules were checked:<BR>
std::list<
while(si != sj)
{
    os << "<BR>
++si;
}

os << "<p>The Boost path was: " << m_boost_path << "</P>
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]+BOOST_VERSION\[[:blank:]]+(\d+)$");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << " "." << version % 100
    "<p>";
}
//
// output each license:

//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary">\n</a><h2>Licence Summary</h2>\n"
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name)>(see details)</a>";
        os << "</P>\n";
        ++i;
    }
    //
    // and now the details:
    //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details">\n</a><h2>Licence Details</h2>\n"
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
            std::<string>::const_iterator x, y;
            x = i->second.authors.begin();
            y = i->second.authors.end();
            while(x != y)
            {
                os << *x;
                if(x != y - 1)
                    os << ", ";
                x++;
            }
        }
    }
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P><BLO

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>";
    os << "<br/>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:<br/>
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        "<br/>\n        <tt><pre>
        " << i->second.first << "</pre></tt><n
        <td><pre>
        " << i->second.second << "</pre></tt><n
        <br/>\n        </tr><n/table><n";
        ++i;
        ++file_num;
    }
}

//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>";
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:<br/>
if (!m_can_migrate_to_bsl.empty())
{
    i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
Files that can NOT be converted to the Boost Software License because we need the permission of more authors:

```
  os << split_path(m_boost_path, *i2) << "\n";
  ++i2;
```

Authors we need for the BSL:

```
  std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
            std::ostream_iterator<std::string>(os, "\n"));
```

Copyright Holder Information:

```
  os << "\n";
  std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
  ad = m_author_data.begin();
  ead = m_author_data.end();
  while(ad != ead)
  {
    os << "\n";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->first.begin();
    efi = ad->first.end();
    while(fi != efi)
    {
      os << split_path(m_boost_path, *fi) << " ";
      ++fi;
    }
    os << "\n";
    ++ad;
  }
```
os << "</table>\n";
}

// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    {
        os << " - > ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
    os << " <I>(Circular dependency!)</I>";
    break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:
More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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//
/////////////////////////////////////////////////////////////////////////////

ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template<bool C_>
    struct bool_ : integral_constant<bool, C_>
    {


static const bool value = C_;  
operator bool() const { return bool_.value; }
};

typedef bool_<true>   true_;  
typedef bool_<false>  false_;  

typedef true_    true_type;  
typedef false_   false_type;  

typedef char    yes_type;  
struct no_type  
{  
    char padding[8];  
};  

template <bool B, class T = void>  
struct enable_if_c  
{  
typedef T type;  
};

template <class T>  
struct enable_if_c<false, T>  
{};

template <class Cond, class T = void>  
struct enable_if : public enable_if_c<Cond::value, T>  
{};

template <class Cond, class T = void>  
struct disable_if : public enable_if_c<!Cond::value, T>  
{};

template <bool B, class T = void>  
struct disable_if_c : public enable_if_c<!B, T>  
{};

template <class T, class U>  
class is_convertible  
{  
    typedef char true_t;  
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);  
    static false_t dispatch(...);  
    static T trigger();  
    public:  
        enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
    };  

template<  
    bool C  
, typename T1
template<
    typename T1
    , typename T2
>
struct if_<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;  }
};
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif   //#ifndef BOOST.Container_CONTAINER_DETAIL_MPL_HPP

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//
//

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_; 
};

typedef bool_<true>       true_;
typedef bool_<false>      false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
};
class false_t { char dummy[2]; }; 
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
template <class T>
struct identity
   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_>
struct bool_
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {          
typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  :
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{
};
template<typename C, typename T1, typename T2>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&!
defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>  
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};

#endif
static const bool value = true;

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{ static const bool value = true; };  

#ifdef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{ static const bool value = true; };  

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...>)
{ static const bool value = true; };  

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{ static const bool value = true; };  

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };  

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true; };  

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{ static const bool value = true; };  


{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};
template<typename T>
struct add_const
{   typedef const T type;   };

template<typename T>
struct remove_const
{   typedef T type;   };

template<typename T>
struct remove_const<const T>
{   typedef T type;   };

template<typename T>
struct remove_cv
{   typedef T type;   };

template<typename T>
struct remove_cv<const T>
{   typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{   typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{   typedef T type;   };

template<class T>
struct remove_reference
{
   typedef T type;
};

template<class T>
struct remove_reference<T&>
{
   typedef T type;
};

template<class Class>
class is_empty_class
{
   template <typename T>
   struct empty_helper_t1 : public T
   {
      empty_helper_t1();
   };
int i[256];
};

struct empty_helper_t2
  { int i[256]; };

public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#define CONFIG_AUTO_ROUTES
#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
#define CONFIG_SINGLE_ROUTE
#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND

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Link: sysdep/bsd
*/
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#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
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#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND
#define CONFIG_USE_HDRINCL

/*
Link: sysdep/unix
Link: sysdep/bsd
*/

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#define CONFIG_SELF_CONSCIOUS
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#define CONFIG_SINGLE_ROUTE
#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND
#define CONFIG_USE_HDRINCL

/*
Link: sysdep/unix
Link: sysdep/bsd
*/
#define IPV6

#define CONFIG_AUTO_ROUTES
#define CONFIG_SELF_CONSCIOUS
#define CONFIG_MULTIPLE_TABLES
#define CONFIG_SINGLE_ROUTE

#define CONFIG_SKIP_MC_BIND
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#define CONFIG_SKIP_MC_BIND
#define CONFIG_NO_IFACE_BIND

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 */

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1.70 calico-confd 0.12.1-calico-0.4.3

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1.72 calico-libnetwork-plugin 1.1.3

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1.73 cassandra 3.11.3

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*/
package org.apache.cassandra.auth;
import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

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/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 * IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 */

public enum Permission {
    @Deprecated
    READ,
    WRITE,

    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataSource are required for
    // CREATE KEYSPACE and CREATE TABLE.
    // ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the
    // relevant DataSource.
    // DROP KEYSPACE and DROP TABLE require DROP permission.
    // In the context of Role management, these permissions may also be granted on a RoleResource.
    // CREATE is only granted on the root-level role resource, and is required to create new roles.
    // ALTER & DROP may be granted on either the root-level role resource, giving permissions on
    // all roles, or on specific role-level resources.
    CREATE,
    ALTER,
    DROP,

    // data access
    SELECT, // required for SELECT on a table
    MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataSource.

    // permission management
    AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.
    DESCRIBE, // required on the root-level RoleResource to list all Roles

    // UDF permissions
    EXECUTE; // required to invoke any user defined function or aggregate

    public static final Set<Permission> ALL =
        Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));
    public static final Set<Permission> NONE = ImmutableSet.of();
}

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package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 */
public enum Permission
{
    @Deprecated
    READ,
    @Deprecated
    WRITE,
    // schema and role management
    // CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for
    // CREATE KEYSPACE and CREATE TABLE.
    // ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on
    // relevant DataResource.
    // DROP KEYSPACE and DROP TABLE require DROP permission.
    // In the context of Role management, these permissions may also be granted on a RoleResource.
    // CREATE is only granted on the root-level role resource, and is required to create new roles.
    // ALTER & DROP may be granted on either the root-level role resource, giving permissions on
    // all roles, or on specific role-level resources.
    CREATE,
    ALTER,
    DROP,
    
    // data access
    SELECT, // required for SELECT on a table
MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

// permission management
AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.

DESCRIBE, // required on the root-level RoleResource to list all Roles

// UDF permissions
EXECUTE; // required to invoke any user defined function or aggregate

public static final Set<Permission> ALL =
      Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));

public static final Set<Permission> NONE = ImmutableSet.of();

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ghost@aladdin.com

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<!--[if !IE]><!-->
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<!--[if !IE]-->
<title>Permission (apache-cassandra API)</title>
<meta name="date" content="2018-07-24">
<link rel="stylesheet" type="text/css" href="../../../../stylesheet.css" title="Style">
<script type="text/javascript" src="../../../../script.js"></script>
</head>

<body>

<!--[if !IE]-->

<script type="text/javascript">
try {
    if (location.href.indexOf('is-external=true') == -1) {
        parent.document.title="Permission (apache-cassandra API)"; 
    }
}

catch(err) {
}
</script>

</body>
</html>

<!--[if !IE]-->
<noscript>
JavaScript is disabled on your browser.</noscript>
</noscript>
An enum encapsulating the set of possible permissions that an authenticated user can have on a resource. IAuthorizer implementations may encode permissions using ordinals, so the Enum order must never change order. Adding new values is ok.
<div class="summary">
<ul class="blockList">
<li class="blockList">
<!-- =========== ENUM CONSTANT SUMMARY =========== -->
<ul class="blockList">
<li class="blockList">
<h3>Enum Constant Summary</h3>
<table class="memberSummary" border="0" cellpadding="3" cellspacing="0" summary="Enum Constant Summary table, listing enum constants, and an explanation">
<caption><span>Enum Constants</span><span class="tabEnd"></caption>
<tr>
<th class="colOne" scope="col">Enum Constant and Description</th>
</tr>
<tr class="altColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#ALTER">ALTER</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#AUTHORIZE">AUTHORIZE</a></span></code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#CREATE">CREATE</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#DESCRIBE">DESCRIBE</a></span></code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#DROP">DROP</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#EXECUTE">EXECUTE</a></span></code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#MODIFY">MODIFY</a></span></code>&nbsp;</td>
</tr>
</tbody></table>
</li>
</ul>
</li>
</ul>
</div>
<tr class="rowColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#READ">READ</a></span></code><div class="block"><span class="deprecatedLabel">Deprecated.</span>&nbsp;</div></td>
</tr>
<tr class="altColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#SELECT">SELECT</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colOne"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#WRITE">WRITE</a></span></code><div class="block"><span class="deprecatedLabel">Deprecated.</span>&nbsp;</div></td>
</tr>
</table>

---

### Field Summary

<ul class="blockList">
<li class="blockList">
<h3>Field Summary</h3>
<table class="memberSummary" border="0" cellpadding="3" cellspacing="0" summary="Field Summary table, listing fields, and an explanation">
<caption><span>Fields</span><span class="tabEnd"><span class="colLast"><a href="../../../../org/apache/cassandra/auth/Permission.html#ALL">ALL</a></span>&nbsp;</span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Field and Description</th>
</tr>
<tr class="altColor">
<td class="colFirst"><code>static java.util.Set&lt;<a href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;</code></td>
<td class="colLast"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#ALL">ALL</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>static java.util.Set&lt;<a href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;</code></td>
<td class="colLast"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#NONE">NONE</a></span></code>&nbsp;</td>
</tr>
</table>
</li>
</ul>

---

### Method Summary

---
<ul class="blockList">
<li class="blockList">
<h3>Method Summary</h3>
<table class="memberSummary" border="0" cellpadding="3" cellspacing="0" summary="Method Summary table, listing methods, and an explanation">
<caption><span id="t0" class="activeTableTab"><span>All Methods</span><span class="tabEnd">&nbsp;</span></span><span id="t1" class="tableTab"><span><a href="javascript:show(1);">Static Methods</a></span><span class="tabEnd">&nbsp;</span></span><span id="t4" class="tableTab"><span><a href="javascript:show(8);">Concrete Methods</a></span><span class="tabEnd">&nbsp;</span></span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<tr id="i0" class="altColor">
<td class="colFirst"><code>static <a href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a></code></td>
<td class="colLast"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#valueOf-java.lang.String-">valueOf</a></span>(java.lang.String&nbsp;name)</code>
<div class="block">Returns the enum constant of this type with the specified name.</div>
</td>
</tr>
<tr id="i1" class="rowColor">
<td class="colFirst"><code>static <a href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>[]</code></td>
<td class="colLast"><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/Permission.html#values--">values</a></span>()</code>
<div class="block">Returns an array containing the constants of this enum type, in the order they are declared.</div>
</td>
</tr>
</table>
<ul class="blockList">
<li class="blockList">
<h3>Methods inherited from class&nbsp;java.lang.Enum</h3>
<code>clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal, toString, valueOf</code></li>
</ul>
<ul class="blockList">
<li class="blockList">
<h3>Methods inherited from class&nbsp;java.lang.Object</h3>
<code>clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal, toString, valueOf</code></li>
</ul>
</li></ul>
<code>getClass, notify, notifyAll, wait, wait, wait</code>
</li>
</ul>
</div>
<div class="details">
<ul class="blockList">
<li class="blockList">
<!-- ============ ENUM CONSTANT DETAIL =========== -->
<ul class="blockList">
<li class="blockList">
<h3>Enum Constant Detail</h3>
<ul class="blockList">
<li class="blockList">
<h4>READ</h4>
<pre>@Deprecated
public static final&nbsp;<a href="org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a> READ</pre>
<div class="block"><span class="deprecatedLabel">Deprecated.</span>&nbsp;</div>
</li>
</ul>
</li>
<li class="blockList">
<h4>WRITE</h4>
<pre>@Deprecated
public static final&nbsp;<a href="org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a> WRITE</pre>
</li>
<li class="blockList">
<h4>CREATE</h4>
<pre>public static final&nbsp;<a href="org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a> CREATE</pre>
</li>
</ul>
</div>
<ul class="blockList">
<li class="blockList">
<h4>ALTER</h4>
<pre>public static final Permission ALTER</pre>
</li>
</ul>

<ul class="blockList">
<li class="blockList">
<h4>DROP</h4>
<pre>public static final Permission DROP</pre>
</li>
</ul>

<ul class="blockList">
<li class="blockList">
<h4>SELECT</h4>
<pre>public static final Permission SELECT</pre>
</li>
</ul>

<ul class="blockList">
<li class="blockList">
<h4>MODIFY</h4>
<pre>public static final Permission MODIFY</pre>
</li>
</ul>

<ul class="blockList">
<li class="blockList">
<h4>AUTHORIZE</h4>
<pre>public static final Permission AUTHORIZE</pre>
</li>
</ul>
public static final Permission AUTHORIZE

<!-- -->
<ul class="blockList">
<li class="blockList">
<h4>DESCRIBE</h4>
<pre>public static final Permission DESCRIBE</pre>
</li>
</ul>

<!-- -->
<ul class="blockList">
<li class="blockList">
<h4>EXECUTE</h4>
<pre>public static final Permission EXECUTE</pre>
</li>
</ul>

<!-- ============ FIELD DETAIL =========== -->
<ul class="blockList">
<li class="blockList">
<h3>Field Detail</h3>

<!-- -->
<ul class="blockList">
<li class="blockList">
<h4>ALL</h4>
<pre>public static final java.util.Set&lt;Permission&gt; ALL</pre>
</li>
</ul>

<!-- -->
<ul class="blockList">
<li class="blockList">
<h4>NONE</h4>
<pre>public static final java.util.Set&lt;Permission&gt; NONE</pre>
</li>
</ul>
public static final java.util.Set<Permission> NONE

Method Detail

values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (Permission c : Permission.values())
    System.out.println(c);

valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match exactly an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:
name - the name of the enum constant to be returned.

generate.

Parameters:
name - the name of the enum constant to be returned.
<dt> <span class="returnLabel">Returns:</span> </dt>
<dd> the enum constant with the specified name </dd>
<dt> <span class="throwsLabel">Throws:</span> </dt>
<dd> <code>java.lang.IllegalArgumentException</code> - if this enum type has no constant with the specified name </dd>
<dd> <code>java.lang.NullPointerException</code> - if the argument is null </dd>
allClassesLink = document.getElementById("allclasses_navbar_top");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<a name="skip.navbar.top" />
<!--   -->
</a></div>
<!-- ========= END OF TOP NAVBAR ========= -->
<div class="header">
<h2 title="Uses of Class org.apache.cassandra.auth.Permission" class="title">Uses of Class
org.apache.cassandra.auth.Permission</h2>
</div>
<div class="classUseContainer">
<ul class="blockList">
<li class="blockList">
<table class="useSummary" border="0" cellpadding="3" cellspacing="0" summary="Use table, listing packages, and an explanation">
<caption><span>Packages that use <a href="../../../../../org/apache/cassandra/auth/Permission.html" title="enum in
org.apache.cassandra.auth">Permission</a></span><span class="tabEnd"></span></caption>
<tbody>
<tr>
<td class="colFirst"><a href="#org.apache.cassandra.auth">
org.apache.cassandra.auth</a></td>
<td class="colLast">&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><a href="#org.apache.cassandra.cql3.statements">
org.apache.cassandra.cql3.statements</a></td>
<td class="colLast">&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><a href="#org.apache.cassandra.service">
org.apache.cassandra.service</a></td>
<td class="colLast">&nbsp;</td>
</tr>
</tbody>
</table>
</li>
</ul>
<ul class="blockList">
</ul>
</div>
<li class="blockList"><a name="org.apache.cassandra.auth">

<!--   -->
</a>

<h3>Uses of <a href="../../../../..\org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a> in <a href="org.apache.cassandra.auth/package-summary.html">org.apache.cassandra.auth</a></h3>
<table class="useSummary" border="0" cellpadding="3" cellspacing="0" summary="Use table, listing fields, and an explanation">
<caption><span>Fields in <a href="org.apache.cassandra.auth/package-summary.html">org.apache.cassandra.auth</a> declared as <a href="org.apache.cassandra.auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a></span><span class="tabEnd">&nbsp;</span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Field and Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><code><a href="org.apache.cassandra.auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a></code></td>
<td class="colLast"><span class="typeNameLabel">PermissionDetails.</span><code><span class="memberNameLink"><a href="org.apache.cassandra.auth/PermissionDetails.html#permission">permission</a></span></code>&nbsp;</td>
</tr>
</tbody>
</table>
<table class="useSummary" border="0" cellpadding="3" cellspacing="0" summary="Use table, listing fields, and an explanation">
<caption><span>Fields in <a href="org.apache.cassandra.auth/package-summary.html">org.apache.cassandra.auth</a> with type parameters of type <a href="org.apache.cassandra.auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a></span><span class="tabEnd">&nbsp;</span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Field and Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><code>static java.util.Set<.<a href="org.apache.cassandra.auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>></code></td>
<td class="colLast"><span class="typeNameLabel">Permission.</span><code><span class="memberNameLink"><a href="org.apache.cassandra.auth/Permission.html#ALL">ALL</a></span></code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>static java.util.Set<.<a href="org.apache.cassandra.auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>></code></td>
<td class="colLast"><span class="typeNameLabel">Permission.</span><code><span class="memberNameLink"><a href="org.apache.cassandra.auth/Permission.html#ALL">ALL</a></span></code>&nbsp;</td>
</tr>
</tbody>
</table>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static Permission</td>
<td><code>valueOf(String name)</code> Returns the enum constant of this type with the specified name.</td>
</tr>
<tr>
<td>static Permission[]</td>
<td><code>values()</code> Returns an array containing the constants of this enum type, in the order they are declared.</td>
</tr>
</tbody>
</table>

Methods in `org.apache.cassandra.auth` that return types with arguments of type `Permission`:
<tbody>
<tr class="altColor">
<td class="colFirst"><code>java.util.Set&lt;&lta href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&gt;</code></td>
<td class="colLast"><span class="typeNameLabel">DataResource.</span><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/DataResource.html#applicablePermissions--">applicablePermissions</a></span>()</code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>java.util.Set&lt;&lta href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&gt;</code></td>
<td class="colLast"><span class="typeNameLabel">FunctionResource.</span><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/FunctionResource.html#applicablePermissions--">applicablePermissions</a></span>()</code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>java.util.Set&lt;&lta href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&gt;</code></td>
<td class="colLast"><span class="typeNameLabel">IResource.</span><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/IResource.html#applicablePermissions--">applicablePermissions</a></span>()</code>
<div class="block">Returns the set of Permissions that may be applied to this resource
Certain permissions are not applicable to particular types of resources.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>java.util.Set&lt;&lta href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&gt;</code></td>
<td class="colLast"><span class="typeNameLabel">JMXResource.</span><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/JMXResource.html#applicablePermissions--">applicablePermissions</a></span>()</code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>java.util.Set&lt;&lta href="../../../../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&gt;</code></td>
<td class="colLast"><span class="typeNameLabel">RoleResource.</span><code><span class="memberNameLink"><a href="../../../../org/apache/cassandra/auth/RoleResource.html#applicablePermissions--">applicablePermissions</a></span>()</code>&nbsp;</td>
</tr>
</tbody>
<table>
<thead>
<tr>
<th>Class</th>
<th>Method Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CassandraAuthorizer</td>
<td><code>authorize(AuthenticatedUser user, IResource resource)</code> Returns a set of permissions of a user on a resource.</td>
</tr>
<tr>
<td>PermissionsCache</td>
<td><code>getPermissions(AuthenticatedUser user, IResource resource)</code></td>
</tr>
<tr>
<td>AuthenticatedUser</td>
<td><code>getPermissions(IResource resource)</code></td>
</tr>
<tr>
<td>IAuthorizer</td>
<td><code>authorize(AuthenticatedUser user, IResource resource)</code></td>
</tr>
<tr>
<td>AllowAllAuthorizer</td>
<td><code>authorize(AuthenticatedUser user, IResource resource)</code></td>
</tr>
</tbody>
</table>

- Java.util.Set title="enum in org.apache.cassandra.auth" Permission
- CassandraAuthorizer Class
- IAuthorizer Class
- PermissionsCache Class
- AuthenticatedUser Class
- AllowAllAuthorizer Class

- Returns a set of permissions of a user on a resource.

---
<table class="useSummary" border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="typeNameLabel">AllowAllAuthorizer.</span><code><span class="memberNameLink"><a href="../org/apache/cassandra/auth/AllowAllAuthorizer.html#grant-org.apache.cassandra.auth.AuthenticatedUser-java.util.Set-org.apache.cassandra.auth.IResource-org.apache.cassandra.auth.RoleResource-">grant</a></span>(<a href="../org/apache/cassandra/auth/AuthenticatedUser.html" title="class in org.apache.cassandra.auth">AuthenticatedUser</a>&nbsp;performer,<a href="java/util/Set.html" title="class in java.util">Set</a>&lt;<a href="../org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>&gt;&nbsp;permissions,<a href="../org/apache/cassandra/auth/IResource.html" title="interface in org.apache.cassandra.auth">IResource</a>&nbsp;resource,<a href="../org/apache/cassandra/auth/RoleResource.html" title="class in org.apache.cassandra.auth">RoleResource</a>&nbsp;to)</code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
</tr>
</tbody>
</table>
<table>
<thead>
<tr>
<th>IAuthorizer</th>
<th>grant(AuthenticatedUser performer, Set&lt;Permission&gt; permissions, IResource resource, RoleResource grantee)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowAllAuthorizer</td>
<td>list(AuthenticatedUser performer, Set&lt;Permission&gt; permissions, IResource resource, RoleResource grantee)</td>
</tr>
<tr>
<td>CassandraAuthorizer</td>
<td>list(AuthenticatedUser performer, Set&lt;Permission&gt; permissions, IResource resource, RoleResource grantee)</td>
</tr>
</tbody>
</table>

Grants a set of permissions on a resource to a role.
<table>
<thead>
<tr>
<th>Class</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAuthorizer</td>
<td>list(AuthenticatedUser&amp; performer, Set&lt;Permission&gt;&amp; permissions, IResource&amp; resource, RoleResource&amp; grantee)</td>
<td>Returns a list of permissions on a resource granted to a role.</td>
</tr>
<tr>
<td>AllowAllAuthorizer</td>
<td>revoke(AuthenticatedUser&amp; performer, Set&lt;Permission&gt;&amp; permissions, IResource&amp; resource, RoleResource&amp; from)</td>
<td>Revokes permissions from a role.</td>
</tr>
<tr>
<td>Constructor and Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>PermissionDetails(String grantee, IResource resource, Permission permission)</code></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Uses of `Permission` in `org.apache.cassandra.cql3.statements`:

<code></code>
Fields in <a href="/org/apache/cassandra/cql3/statements/package-summary.html">org.apache.cassandra.cql3.statements</a> with type parameters of type <a href="/org/apache/cassandra/auth/Permission.html" title="enum in org.apache.cassandra.auth">Permission</a>

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Field and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected java.util.Set&lt;Permission&gt;</td>
<td>ListPermissionsStatement. permissions</td>
</tr>
<tr>
<td>protected java.util.Set&lt;Permission&gt;</td>
<td>PermissionsManagementStatement. permissions</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>void</td>
<td>AuthenticationStatement. checkPermission(ClientState, Permission, RoleResource)</td>
</tr>
</tbody>
</table>

Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

1169
<table>
<thead>
<tr>
<th>Constructor and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GrantPermissionsStatement(java.util.Set&lt;Permission&gt;, IResource, RoleName)</td>
</tr>
<tr>
<td>ListPermissionsStatement(java.util.Set&lt;Permission&gt;, IResource, RoleName, boolean)</td>
</tr>
<tr>
<td>PermissionsManagementStatement(java.util.Set&lt;Permission&gt;, IResource, RoleName)</td>
</tr>
<tr>
<td>Modifier and Type</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>void</td>
</tr>
<tr>
<td>ClientState</td>
</tr>
<tr>
<td>org.apache.cassandra.auth.Permission</td>
</tr>
<tr>
<td>org.apache.cassandra.cql3.functions.Function</td>
</tr>
</tbody>
</table>

Uses of `Permission` in `org.apache.cassandra.auth` in package `org.apache.cassandra.service` with parameters of type `Permission` and `IResource`.

- `ensureHasPermission(permission, resource)` in `ClientState`.
- `ensureHasPermission(permission, resource)` in `org.apache.cassandra.auth`.
- `ensureHasPermission(permission, resource)` in `org.apache.cassandra.cql3.functions.Function`.
- `ensureHasPermission(permission, resource)` in `org.apache.cassandra.cql3.functions.Function`.

Table showing methods with parameters of type `Permission` and `IResource`.
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
</table>
| void ClientState.
| ensureHasPermission(Permission, IResource) | Ensures the user has a specific permission for a resource |
| void ClientState.
| hasAllKeyspacesAccess(Permission) | Checks if the user has access to all keyspaces in the system |
| void ClientState.
| hasColumnFamilyAccess(CFMetaData, Permission) | Checks if the user has access to a specific column family |
| void ClientState.
| hasColumnFamilyAccess(String, String, Permission) | Checks if the user has access to a specific column family based on keyspace and column family names |
| void ClientState.
| hasKeyspaceAccess(String, Permission) | Checks if the user has access to a specific keyspace |
if(window==top) {
    allClassesLink.style.display = "block";
} else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<a name="skip.navbar.bottom">
<!--   -->
</a></div>
<!-- ======== END OF BOTTOM NAVBAR ======= -->
<p class="legalCopy"><small>Copyright &copy; 2018 The Apache Software Foundation</small></p>
</body>
</html>

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Some alternate data structures provided by high-scale-lib from http://sourceforge.net/projects/high-scale-lib/.
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Some alternate data structures provided by concurrentlinkedhashmap from http://code.google.com/p/concurrentlinkedhashmap/.
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Alternative collection types provided by google-collections from http://code.google.com/p/google-collections/.
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JSON (de)serialization provided by jackson (http://jackson.codehaus.org).
Copyright (C) 2010 Tatu Saloranta and others.

Alternative JSON (de)serialization by json-simple from (http://code.google.com/p/json-simple).
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This product includes the Jetty HTTP server (http://jetty.codehaus.org/jetty/).
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YAML support provided by snakeml (http://code.google.com/p/snakeyaml/).
Copyright (c) 2008-2010 Andrey Somov
Compression support provided by snappy-java (http://code.google.com/p/snappy-java/)
Written by Taro L. Saito.

Streaming compression support provided by ning-compress
(https://github.com/ning/compress)
Copyright 2009-2010 Ning, Inc.

CQL Native transport uses Netty
(https://netty.io/)
Copyright (C) 2011 The Netty Project

LZ4 compression support provided by lz4-java (http://github.com/jpountz/lz4-java)
Written by Adrien Grand.
Contains bindings to the C LZ4 implementation (http://code.google.com/p/lz4/)
Copyright (C) 2011-2012, Yann Collet.

Alternative Disruptor backed thrift server from https://github.com/xedin/disruptor_thrift_server
Written by Pavel Yaskevich.

LMAX Disruptor
(http://lmax-exchange.github.io/disruptor/)
Copyright 2011 LMAX Ltd.

Airline
(https://github.com/airlift/airline)
Copyright 2011, Dain Sundstrom dain@iq80.com
Copyright 2010, Cedric Beust cedric@beust.com

HLL++ support provided by stream-lib
(https://github.com/addthis/stream-lib)

Eclipse JDT
Java compilation software for user-defined-functions is provided by Eclipse,
which is open source software. The original software and
related information is available at http://www.eclipse.org/
(http://www.eclipse.org/jdt/)

SIGAR
http://sigar.hyperic.com/

OHC
(https://github.com/snazy/ohc)
Java Off-Heap-Cache, licensed under APLv2
Copyright 2014-2015 Robert Stupp, Germany.

Protocol buffers for varint encoding
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ASM
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HdrHistogram
http://hdrhistogram.org

JCTools
http://jctools.github.io/JCTools/

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 */
package org.apache.cassandra.auth;

import java.util.EnumSet;
import java.util.Set;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

/**
 * An enum encapsulating the set of possible permissions that an authenticated user can have on a resource.
 * 
 * IAuthorize implementations may encode permissions using ordinals, so the Enum order must never change order.
 * Adding new values is ok.
 * 
 * // schema and role management
 */
CREATE, ALTER and DROP permissions granted on an appropriate DataResource are required for CREATE KEYSPACE and CREATE TABLE. ALTER KEYSPACE, ALTER TABLE, CREATE INDEX and DROP INDEX require ALTER permission on the relevant DataResource. DROP KEYSPACE and DROP TABLE require DROP permission.

In the context of Role management, these permissions may also be granted on a RoleResource. CREATE is only granted on the root-level role resource, and is required to create new roles. ALTER & DROP may be granted on either the root-level role resource, giving permissions on all roles, or on specific role-level resources.

CREATE, ALTER, DROP,

data access
SELECT, // required for SELECT on a table
MODIFY, // required for INSERT, UPDATE, DELETE, TRUNCATE on a DataResource.

permission management
AUTHORIZE, // required for GRANT and REVOKE of permissions or roles.

DESCRIBE, // required on the root-level RoleResource to list all Roles

UDF permissions
EXECUTE; // required to invoke any user defined function or aggregate

```java
public static final Set<Permission> ALL = Sets.immutableEnumSet(EnumSet.range(Permission.CREATE, Permission.EXECUTE));
public static final Set<Permission> NONE = ImmutableSet.of();
```
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===============================================================================
The inverse error function implementation in the Erf class is based on CUDA
code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,
===============================================================================

The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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.

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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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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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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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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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A. HISTORY OF THE SOFTWARE

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

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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.keio.ac.jp/matumoto/emt.html
Sockets
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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

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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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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_inquire.c
lib/gssapi/mechglue/g_inquire_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

```plaintext
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/kproplg.c
```

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To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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---

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* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Upstream-Contact: Benjamin Drung <bdrung@debian.org>

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LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
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GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
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Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encl-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
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ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.
LIBGCRYPT Timo Schulz 2001-08-31
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LIBGCRYPT Simon Josefsson 2002-10-25
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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(SEEQ cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
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(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Mill 2012-02-15
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(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
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(cipher/serpent.c)

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Peter Wu <peter@lekensteyn.nl>
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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This is the Debian GNU/Linux prepackaged version of the Debian Base System Miscellaneous files. These files were written by Ian Murdock <imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>, from his own sources.

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This is Debian GNU/Linux's prepackaged version of exim, a powerful yet easy to configure mail transport agent.
This package was put together from the original sources which are maintained by Philip Hazel <ph10@cus.cam.ac.uk>, and which were obtained from

ftp://ftp.csx.cam.ac.uk/pub/software/email/exim/

Some modifications to the Makefiles have been made to fit with the Linux FHS.

The exim content filtering extension, formally known as the exiscan-acl patch, and which is included in exim4-daemon-heavy, was written by Tom Kistner <tom@duncanthrax.net>.

/* Copyright (c) Tom Kistner <tom@duncanthrax.net> 2003-???? */
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Debian Maintainer history:
- The Debian package for exim was originally made by Tim Cutts <time@chiark.greenend.org.uk>.
- Mark Baker <mbaker@iee.org> took over until exim version 3 and is still involved with packaging.
- Steve Haslam, Hilko Bengen and Marc Haber generated the initial packages of Exim v4.
- The exim4 packages are currently maintained by
  - Core Team
    - (mh) Marc Haber <mh+debian-packages@zugschlus.de> (team leader)
    - (am) Andreas Metzler <ametzler@downhill.at.eu.org> (uploader)
  - Commit Privileges
    - (hb) Hilko Bengen <bengen@debian.org> (documentation, hacks etc)
    - (cb) Christian Perrier <bubulle@debian.org> (translations)

The following people helped in preparing the exim4 packages and gave important feedback:
- Marc Merlin provides the dlopen patch, making it possible to load local_scan-routines for a external shared object.
  The original patch was written by David Woodhouse, it was modified first by Derrick ’dman’ Hudson and afterwards by Marc Merlin.
- Sander Smeenk provided the TLS-docs and the script to generate the self-signed certificates.
- The people on the exim4-debian list that submitted bug-reports and -fixes, and helped with design issues: Matthias Klose, Alexander Koch, Ola Lundqvist, Andrew Mulholland, David Pashley, Andreas Piesk, Nick Phillips and whoever I forgot to mention.
- syslog2eximlog script by Martin Godisch.
- Hilko Bengen converted the Debian documentation from plain-text to XML format.

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

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

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A number of pieces of external code are included in the Exim distribution.

- Support for the cdb (Constant DataBase) lookup method is provided by code contributed by Nigel Metheringham of Planet Online Ltd. which contains the following statements:

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  This code implements Dan Bernstein’s Constant DataBase (cdb) spec. Information, the spec and sample code for cdb can be obtained from http://www.pobox.com/~djb/cdb.html. This implementation borrows some code from Dan Bernstein’s implementation (which has no license restrictions applied to it).

  The implementation is completely contained within the code of Exim. It does not link against an external cdb library.

- Client support for Microsoft’s "Secure Password Authentication" is provided by code contributed by Marc Prud’hommeaux. Server support was contributed by Tom Kistner. This includes code taken from the Samba project, which is released under the Gnu GPL.

- Support for calling the Cyrus "pwcheck" and "saslauthd" daemons is provided by code taken from the Cyrus-SASL library and adapted by Alexander S. Sabourenkov. The permission notice appears below, in accordance with the conditions expressed therein.

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. Some of the code to support the use of maildirsize files for maildir deliveries is taken from the Courier Imapd source code. This code is released under the GPL.

--
Philip Hazel Universe of Cambridge Computing Service,

src/pdkim/*
PDKIM - a RFC4871 (DKIM) implementation
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Copyright (C) 2009 - 2016 Tom Kistner <tom@duncanthrax.net>
Copyright (C) 2016 - 2017 Jeremy Harris <jgh@exim.org>

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This copy of PDKIM is included with Exim. For a standalone distribution, visit http://duncanthrax.net/pdkim/.

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Generating a tarball from CVS snapshot.
Upstream is keeping sourcecode and documentation (including changelog) in separate CVS modules: exim-src and exim-doc. However the release tarball contains parts from both modules.

1. Use exim-src modules as base
2. Generate a doc subdirectory containing the contents of exim-doc/doc-txt/
3. Take exim-doc and build the txt files You will need xft, xmlto, docbook-xsl and w3m.
   cd doc-docbook ; make spec.txt filter.txt exim.8
   Copy the three files to exim-version/doc/
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Upstream-Name: LSB implementation package

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src/include/snowball/libstemmer/ are taken directly from the Snowball files,
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Upstream-Contact: Manoj Srivastava <srivasta@debian.org>
Source: git://anonscm.debian.org/users/srivasta/debian/ucf.git
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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:   ftp.cistron.nl /pub/people/miquels/software
       92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
       92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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).
  *
  * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
    * public domain.
  
This is the Debian GNU/Linux prepackaged version of sed - the GNU stream oriented editor.

This package was assembled from sources obtained from:

It is currently maintained by Clint Adams <clint@debian.org>


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Upstream-Contact: systemd-devel@lists.freedesktop.org
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Files: src/udev/udev-ctrl.c
    src/udev/udevadm-hwdb.c
    src/udev/udev-builtin.c
    src/udev/udev-builtin-net_id.c
    src/udev/udev-builtin-net_setup_link.c
    src/udev/udev-builtin-hwdb.c
    src/udev/udev-builtin-btrfs.c
    src/udev/udev-builtin-keyboard.c
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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>

This package was debianized by Stephen Crowley crow@debian.org and is now maintained by Aurelien Jarno <aurel32@debian.org>.

It was downloaded from http://www.lm-sensors.org/

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
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   visibility.m4 serial 1 (gettext-0.15),
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This is Debian GNU/Linux's prepackaged version of the General Purpose Mouse Interface utility. The general purpose mouse daemon tries to be a useful mouse server for applications running on the Linux console.

This package was put together by, James Troup <james@nocrew.org>.

Now maintained as a team by:

Guillem Jover <guillem@debian.org>
Peter Samuelson <peter@p12n.org>
The upstream source was downloaded from:

<http://unix.schottelius.org/gpm/archives/>

The initial changes while packaging were minor:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.
- gpm.c (processConn): type of socket length changed (size_t -> socklen_t).
- debuglog.c: #include <string.h> to quiet -Wall.
- doc/Makefile.in (maintainer-clean): clean without interaction and clean all relevant files (i.e. gpm.info-{1,2}).
- doc/Makefile.in: add support for mouse-test.1.

The following changes were thought of and done mostly by Francois Gouget <fgouget@mygale.org>; though I didn't apply his patches as they were for various reasons:

- gpn.c (cmdline): modified handling of -t command line argument, so it can be used by anyone regardless of whether or not a copy of gpm is already running.
- gpn.c (usage): update for new -t option "types".
- mice.c: improved descriptions of mouse types.
- mice.c (M_listMice): function used by -t help, reworked version of old M_listTypes.
- mice.c (M_listTypes): function used by -t types; lists only mnemonics.

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This is the Debian GNU/Linux packaged version of the GNU core
utilities.

This package is maintained by Michael Stone <mstone@debian.org> and
built from sources obtained from:

This debian package was first created by Michael Stone <mstone@debian.org>,
from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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=======

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doc/coreutils.texi (The GNU Coreutils Manual)

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The deflate format used by zlib was defined by Phil Katz. The deflate
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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_0.pod
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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
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src/hash/md5.c

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, Fortran 95, Java, Objective-C,
Objective-C++, and Treelang compilers, documentation, and support
libraries. In addition, Debian provides the gdc compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
http://bitbucket.org/goshawk/gdc     (for D)

The current gcc-6 source package is taken from the SVN gcc-6-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-6</td>
<td>libgnat-6</td>
<td>gnat-6-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-6</td>
<td>gcc-6-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-6</td>
<td>libstdc++6</td>
<td>libstdc++6-6-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-6</td>
<td>libgfortran3</td>
<td>gfortran-6-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-6</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>gcj-6</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-6</td>
<td>libobjc2</td>
<td></td>
</tr>
</tbody>
</table>
Objective C++ gobjc++-6

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-6-dbg libstdc++6-6-pic</td>
<td>libphobos-6-dev</td>
<td>libgcj10-src libgcj10-dev</td>
<td>libgcj10-dbg</td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-6-base  Base files common to all compilers
gcc-6-soft-float  Software floating point (ARM only)
gcc-6-source  The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn6  GNAT version library
libgnatprj-dev, libgnatprj6  GNAT Project Manager library

C:
cpp-6, cpp-6-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes  Fix non-ANSI header files

Java:
gij  The Java bytecode interpreter and VM
libgcj-common  Common files for the Java run-time
libgcj10-awt  The Abstract Windowing Toolkit
libgcj10-jar  Java ARChive for the Java run-time

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC  OpenMP (GOMP) support library
libitm1-dev, libitm1GNU  Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64
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- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-6 Ada support library and libgnatvsn library.
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D:
gdc-6 GNU D Compiler
libphobos-6-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>.
The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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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.
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Mersenne Twister

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The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/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.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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DTLS-SRTP support.

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lib/extras/hex.*
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dbug/tests.c
dbug/tests-t.pl
include/probes_mysql_nodtrace.h.in
libmysqld/resource.h
mysql-test/*
support-files/binary-configure.sh
support-files/my-huge.cnf.sh
support-files/my-innodb-heavy-4G.cnf.sh
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mysql-test/lib/My/ConfigFactory.pm
mysql-test/mysql-stress-test.pl
BUILD/*.sh
BUILD/compile-amd64-debug-max-no-ndb
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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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
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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The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on
Tue, 17 Mar 2015.

The original source was downloaded from
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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
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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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In 1995, Guido continued his work on Python at the Corporation for
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-----------------------------------------------

Mersenne Twister

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

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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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-------

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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 version is still 5 times faster, though.
- Arguments more compliant with python standard

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lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.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
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X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
hn@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c, g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org
LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNU TLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)
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Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.51Ya7Yq760@darkstar:
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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This package's upstream homepage is http://xmlsoft.org/XSLT/
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This is Debian GNU/Linux's prepackaged version of exim, a powerful yet easy
to configure mail transport agent.

This package was put together from the original sources which are
maintained by Philip Hazel <ph10@cus.cam.ac.uk>, and which were
obtained from

ftp://ftp.csx.cam.ac.uk/pub/software/email/exim/

Some modifications to the Makefiles have been made to fit with the Linux
The exim content filtering extension, formally known as the exiscan-acl patch, and which is included in exim4-daemon-heavy, was written by Tom Kistner <tom@duncanthrax.net>.
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Debian Maintainer history:
- The Debian package for exim was originally made by Tim Cutts <time@chiark.greenend.org.uk>.
- Mark Baker <mbaker@iee.org> took over until exim version 3 and is still involved with packaging.
- Steve Haslam, Hilko Bengen and Marc Haber generated the initial packages of Exim v4.
- The exim4 packages are currently maintained by
  - Core Team
  - (mh) Marc Haber <mh+debian-packages@zugslus.de> (team leader)
  - (am) Andreas Metzler <ametzler@downhill.at.eu.org> (uploader)
- Commit Privileges
  - (hb) Hilko Bengen <bengen@debian.org> (documentation, hacks etc)
  - (cb) Christian Perrier <bubulle@debian.org> (translations)

The following people helped in preparing the exim4 packages and gave important feedback:
- Marc Merlin provides the dlopen patch, making it possible to load local_scan-routines for a external shared object.
  The original patch was written by David Woodhouse, it was modified first by Derrick 'dman' Hudson and afterwards by Marc Merlin.
- Sander Smeenk provided the TLS-docs and the script to generate the self-signed certificates.
- The people on the exim4debian list that submitted bug-reports and -fixes, and helped with design issues: Matthias Klose, Alexander Koch, Ola Lundqvist, Andrew Mulholland, David Pashley, Andreas Piesk, Nick Phillips and whoever I forgot to mention.
- syslog2eximlog script by Martin Godisch.
- Hilko Bengen converted the Debian documentation from plain-text to XML format.

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A number of pieces of external code are included in the Exim distribution.

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The implementation is completely contained within the code of Exim. It does not link against an external cdb library.

- Client support for Microsoft's "Secure Password Authentication" is provided by code contributed by Marc Prud'hommeaux. Server support was contributed by Tom Kistner. This includes code taken from the Samba project, which is released under the Gnu GPL.

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Some of the code to support the use of maildirsize files for maildir deliveries is taken from the Courier Imapd source code. This code is released under the GPL.

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src/pdkim/

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Upstream-Contact: Werner Koch <wk@gnupg.org>

Files: *
Makefile.am
src/Makefile.am
src/assuan-buffer.c
src/assuan-error.c
src/assuan-inquire.c
src/assuan-io.c
src/assuan-listen.c
src/assuan-pipe-server.c
src/assuan-socket-connect.c
src/assuan-socket-server.c
src/assuan-socket.c
src/assuan-uds.c
src/client.c
src/context.c
src/funopen.c
src/memrchr.c
src/posix-fd-t.inc.h
src/posix-includes.inc.h
src/posix-sock-nonce.inc.h
src/posix-sys-pth-impl.h
src/posix-types.inc.h
src/putc_unlocked.c
src/server.c
src/setenv.c
src/stpcpy.c
src/system-posix.c
src/system-w32.c
src/system-w32ce.c
src/system.c
src/w32-fd-t.inc.h
src/w32-includes.inc.h
src/w32-sock-nonce.inc.h
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m4/ltversion.m4
m4/lt~obsolete.m4
m4/onceonly.m4
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Files: build-aux/compile
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m4/libtool.m4
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:  ftp.cistron.nl /pub/people/miquels/software
   92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
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Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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).
Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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This is the Debian GNU/Linux prepackaged version of sed - the GNU stream oriented editor.

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It is currently maintained by Clint Adams <clint@debian.org>


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This is Debian GNU/Linux's prepackaged version of the General Purpose Mouse Interface utility. The general purpose mouse daemon tries to be a useful mouse server for applications running on the Linux console.

This package was put together by, James Troup <james@nocrew.org>.

Now maintained as a team by:

Guillem Jover <guillem@debian.org>
Peter Samuelson <peter@p12n.org>

The upstream source was downloaded from:

<http://unix.schottelius.org/gpm/archives/>

The initial changes while packaging were minor :-

- adding support for the Debian package maintenance scheme, by adding various debian/*/ files.
- gpm.c (processConn): type of socket length changed (size_t -> socklen_t).
- debuglog.c: #include <string.h> to quiet -Wall.
- doc/Makefile.in (maintainer-clean): clean without interaction and
  clean all relevant files (i.e. gpm.info-{1,2}).
- doc/Makefile.in: add support for mouse-test.1.

The following changes were thought of and done mostly by Fran
cois Gouget <fgouget@mygale.org>; though I didn't apply his patches as
they were for various reasons:

- gpn.c (cmdline): modified handling of -t command line argument, so it
  can be used by anyone regardless of whether or not a copy of gpm is
  already running.
- gpn.c (usage): update for new -t option "types".
- mice.c: improved descriptions of mouse types.
- mice.c (M_listMice): function used by -t help, reworked version of
  old M_listTypes.
- mice.c (M_listTypes): function used by -t types; lists only
  mnemonics.

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This is the Debian GNU/Linux package debianutils.

It is an original Debian package. Programs in it were maintained by Guy Maor <naor@debian.org>, and are now maintained by Clint Adams <schizo@debian.org>.

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This is the Debian GNU/Linux packaged version of the GNU core utilities.

This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:

This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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doc/coreutils.texi (The GNU Coreutils Manual)
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There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

This is the Debian prepackaged version of the Time Zone and Daylight Saving Time Data.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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src/bsd_getopt.c
src/err.c
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include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcsclpy.3
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/radixsort.c
src/setmode.c
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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_hurd.c
src/getentropy_osx.c  
src/getentropy_solaris.c  
src/readpassphrase.c  
src/reallocarray.c  
src/strlcat.c  
src/strlcpy.c  
src/strtonum.c  

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- ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
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- http://bitbucket.org/goshawk/gdc (for D)

The current gcc-6 source package is taken from the SVN gcc-6-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-6</td>
<td>libgnat-6</td>
<td>gnat-6-doc</td>
</tr>
<tr>
<td>C</td>
<td>gcc-6</td>
<td>gcc-6-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-6</td>
<td>libstdc++6</td>
<td>libstdc++6-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-6</td>
<td>libgfortran3</td>
<td>gfortran-6-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-6</td>
<td>libgco0</td>
<td></td>
</tr>
<tr>
<td>Java</td>
<td>gcj-6</td>
<td>libgcj10</td>
<td>libgcj-doc</td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-6</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gohjc++-6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
</table>
C++       libstdc++6-6-dbg  libstdc++6-6-pic
D         libphobos-6-dev
Java      libgcj10-src libgcj10-dev libgcj10-dbg

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4       GCC intrinsics (platform-dependent)
gcc-6-base                    Base files common to all compilers
gcc-6-soft-float              Software floating point (ARM only)
gcc-6-source                  The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn6   GNAT version library
libgnatprj-dev, libgnatprj6   GNAT Project Manager library

C:
cpp-6, cpp-6-doc            GNU C Preprocessor
libssp0-dev, libssp0            GCC stack smashing protection library
libquadmath0                    Math routines for the __float128 type
fixincludes                     Fix non-ANSI header files

Java:
gij                             The Java bytecode interpreter and VM
libgcj-common                   Common files for the Java run-time
libgcj10-awt                    The Abstract Windowing Toolkit
libgcj10-jar                    Java ARchive for the Java run-time

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/tsystem.h, gcc/typeclass.h).
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- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-6 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
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D:
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libphobos-6-dev D standard runtime library

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A. HISTORY OF THE SOFTWARE
===========================

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

The `random' module includes code based on a download from
'\http://www.math.keio.ac.jp/~matumoto/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.keio.ac.jp/matumoto/emt.html
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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- Use binascii module to do the actual line-by-line conversion
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Comment: This code is not used on Debian/*, since we have a working
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mysql-test/lib/My/ConfigFactory.pm
mysql-test/mysql-stress-test.pl
BUILD/* .sh
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BUILD/compile-solaris-amd64
BUILD/compile-amd64-valgrind-max
BUILD/compile-pentium64-max
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BUILD/compile-pentium-valgrind-max-no-ndb
scripts/mysqlhotcopy.sh
scripts/mysqld_multi.sh
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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/* Code from GLIB gunidecomp.c starts here. */

/* decomp.c - Character decomposition. */

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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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### 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 build system 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.

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The Red Hat developers, without whom CentOS would look very different

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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---

layout: "docs"
page_title: "Commands: License"
sidebar_current: "docs-commands-license"
description: >
The license command provides datacenter-level management of the Consul Enterprise license.

---

# Consul License

Command: `consul license`

```text
Usage: consul license <subcommand> [options] [args]
```

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:
$ consul license put @consul.license

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get  Get the current license
  put  Puts a new license in the datacenter

## put

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

```
<%= partial "docs/commands/http_api_options_client" %>
<%= partial "docs/commands/http_api_options_server" %>
```

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

```
<%= partial "docs/commands/http_api_options_client" %>
<%= partial "docs/commands/http_api_options_server" %>
```

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8fffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

---

# License - Operator HTTP API

~> **Enterprise Only!** This API endpoint and functionality only exists in Consul Enterprise. This is not present in the open source version of Consul.

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License
This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for blocking queries, consistency modes, agent caching, and required ACLs.

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `- `dc` `: `(string: `")` `- Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```text
$ curl \
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z",
        "expiration_time": "2019-05-22T03:59:59.999Z",
        "product": "consul",
        "flags": {
            "package": "premium"
        },
        "features": [
            "Automated Backups",
```
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for blocking queries (/api/index.html#blocking-queries), consistency modes (/api/index.html#consistency-modes), agent caching (/api/index.html#agent-caching), and required ACLs (/api/index.html#acls).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
text
$ curl \
  --request PUT \n  --data @consul.license \n  http://127.0.0.1:8500/v1/operator/license
```
### Sample Response

```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "*",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z",
        "expiration_time": "2019-05-22T03:59:59.999Z",
        "product": "consul",
        "flags": {
            "package": "premium"
        },
        "features": [
            "Automated Backups",
            "Automated Upgrades",
            "Enhanced Read Scalability",
            "Network Segments",
            "Redundancy Zone",
            "Advanced Network Federation"
        ],
        "temporary": false
    },
    "Warnings": []
}
```
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mgo - MongoDB driver for Go

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Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `\[wip\]` tag to the title of your Pull Request.
You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

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

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
Step 7: Congratulations!
------------------------

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue
------------------------

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
----------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* [https://github.com/gophercloud/gophercloud/issues/715](https://github.com/gophercloud/gophercloud/issues/715)
* [https://github.com/gophercloud/gophercloud/issues/719](https://github.com/gophercloud/gophercloud/issues/719)

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for
an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

=============

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let’s use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there’s a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
```go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
    Shared bool `json:"shared"
}
```go

to look like

```go
```go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"

    to look like

```go
```go
type Network struct {
    ID string `json:"id"
    Name string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
    Status string `json:"status"
    Subnets []string `json:"subnets"
    TenantID string `json:"tenant_id"
```go
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the OpenStack API reference documentation[https://developer.openstack.org/api-ref/network/v2/]. However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying > that the API docs aren't useful or that the contributors who work on the API > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

```go
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.Tear downHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })

    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

    return true, nil
```
func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)
    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }
    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package testing

import (
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `'
    {
}
`

// GetResult provides a Get result.
const GetResult = `'
    {
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `'
    {
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `'
    {
`
// UpdateResult provides an update result.
const UpdateResult = {
}

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})
}
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.
*/

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE
package RESOURCE
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {

resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
  Links struct {
    Next     string `json:"next"
    Previous string `json:"previous"
  } `json:"links"
}
err := r.ExtractInto(&s)
if err != nil {
  return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
  Resources []Resource `json:"resources"
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
  Resource *Resource `json:"resource"
}
err := r.ExtractInto(&s)
return s.Resource, err
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
return client.ServiceURL("resource", id)
}
func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

func CreateOptsBuilder() interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

func CreateOpts struct {
}

func ToResourceCreateMap(opts CreateOpts) (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

func UpdateOptsBuilder() interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// Get retrieves details of a RESOURCE.
// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
// CreateOpts provides options used to create a RESOURCE.
// ToResourceCreateMap formats a CreateOpts into a create request.
// Create creates a new RESOURCE.
// Delete deletes a RESOURCE.
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: jint{200},
    })
    return
}

Step 4: Acceptance Testing

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.
Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it’s time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a ‘git’ repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you’re implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you’re adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.
### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.
### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 1: Read Our Guides

====================================
There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

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AWS SDK for Go

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Portions of the client are based on code at:
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Go support for Protocol Buffers - Google's data interchange format

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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}
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Portions of the client are based on code at:
https://github.com/google/go-github/ and
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  @extend %notice-warning;
}

.notice.info {
  @extend %notice-info;
}

.notice.policy-management {
  @extend %notice-highlight;
}

%notice {
  position: relative;
  padding: 1em;
  padding-left: 45px;
}

%notice::before {
  position: absolute;
  left: 20px;
  top: 18px;
  margin-top: 0;
}

%notice {
  border-radius: $radius-small;
  border-width: 1px;
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
%notice-success {
  @extend %with-passing;
  background-color: $ui-green-050;
  border-color: $ui-color-success;
  color: $ui-green-700;
}
%notice-success::before {
  color: $ui-color-success;
}

%notice-info {
/* %frame-blue-000*/
  border-style: solid; /*TODO: this can go once we are using a frame*/
  @extend %with-passing; /* needs a better info button*/
  background-color: $ui-blue-050;
  border-color: $ui-color-action; /* TODO: change to info */
  color: $ui-blue-700;
}
%notice-info::before {
  color: $ui-color-action; /* change to info */
}
%notice-highlight {
/* %frame-blue-000*/
  border-style: solid; /*TODO: this can go once we are using a frame*/
  @extend %with-star;
  border-color: $ui-gray-300;
  background-color: $ui-gray-050;
}
%notice-highlight::before {
  /* %with-star, bigger */
  width: 16px;
  height: 16px;
}
%notice-warning {
  @extend %frame-yellow-500, %with-warning;
}
%notice-error {
  @extend %with-critical;
  background-color: $ui-red-050;
  border-color: $ui-color-failure;
  color: $ui-red-600;
}
%notice-error::before {
  color: $ui-color-failure;
}
@import './skin';
@import './layout';
1.91 consul-replicate 0.4.0

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Protocol Buffers for Go with Gadgets

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compiler/cpp/src/generate/t_hs_generator.cc
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compiler/cpp/src/generate/t_rb_generator.cc
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compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
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lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
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1.93 coreutils 8.26 :3

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>
```c
#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E)\
  ((E)->fts_info == FTS_D\n   || (E)->fts_info == FTS_DC\n   || (E)->fts_info == FTS_DP\n   || (E)->fts_info == FTS_DNR)

enum RCH_status
{
  /* we called fchown and close, and both succeeded */
  RC_ok = 2,

  /* required_uid and/or required_gid are specified, but don't match */
  RC_excluded,

  /* SAME_inode check failed */
  RC_inode_changed,

  /* open/fchown isn't needed, isn't safe, or doesn't work due to
   permissions problems; fall back on chown */
  RC_do_ordinary_chown,

  /* open, fstat, fchown, or close failed */
  RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
  chopt->force_silent = false;
  chopt->user_name = NULL;
  chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
```
/* Deliberately do not free chopt->user_name or ->group_name. They're not always allocated. */

extern char *
gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
        : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
        : umaxtostr (gid, buf));
}

extern char *
uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwnuid (uid);
    return xstrdup (pwd ? pwd->pw_name
        : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
        : umaxtostr (uid, buf));
}

/* Allocate a string representing USER and GROUP. */

static char *
user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
    {
        if (group)
        {
            spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
            stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
        }
        else
{  
  spec = xstrdup (user);  
}
}  
else if (group)  
{  
  spec = xstrdup (group);  
}

return spec;
}

/* Tell the user how/if the user and group of FILE have been changed.  
If USER is NULL, give the group-oriented messages.  
CHANGED describes what (if anything) has happened. */

static void  
describe_change (const char *file, enum Change_status changed,  
                    char const *old_user, char const *old_group,  
                    char const *user, char const *group)  
{  
  const char *fmt;  
  char *old_spec;  
  char *spec;

  if (changed == CH_NOT_APPLIED)  
  {  
    printf (_("neither symbolic link %s nor referent has been changed\n"),  
            quote (file));  
    return;
  }

  spec = user_group_str (user, group);
  old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

  switch (changed)  
  {  
    case CH_SUCCEEDED:  
      fmt = (user ? _("changed ownership of %s from %s to %s\n")  
                  : group ? _("changed group of %s from %s to %s\n")  
                  : _("no change to ownership of %s\n");  
      break;
    case CH_FAILED:  
      if (old_spec)  
      {  
        fmt = (user ? _("failed to change ownership of %s from %s to %s\n")  
                    : group ? _("failed to change group of %s from %s to %s\n")  
                    : _("failed to change ownership of %s\n");
    break;
    case CH_NO_CHANGE:  
      break;
  }
  }

  printf (_("%s\n"), fmt);  
}

else
{
    fmt = (user ? _("failed to change ownership of \%s to \%s\n")
            : group ? _("failed to change group of \%s to \%s\n")
            : _("failed to change ownership of \%s\n"));
    free (old_spec);
    old_spec = spec;
    spec = NULL;
}
break;
case CH_NO_CHANGE_REQUESTED:
    fmt = (user ? "ownership of \%s retained as \%s\n"
            : group ? "group of \%s retained as \%s\n"
            : "ownership of \%s retained\n");
    break;
default:
    abort ();
}
printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call fstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file, 
                 struct stat const *orig_st, 
                 uid_t uid, gid_t gid,
int required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (!S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }

    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd
        || (errno == EACCES && S_ISREG (orig_st->st_mode))
        && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (!SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
             && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
        {
            if (fchown (fd, uid, gid) == 0)
            {
                status = (close (fd) == 0
                            ? RC_ok : RC_error);
                return status;
            }
            else
            {
                status = RC_error;
            }
        }

    int saved_errno = errno;
    close (fd);
    errno = saved_errno;
    return status;
}
/* Change the owner and/or group of the file specified by FTS and ENT to UID and/or GID as appropriate. 
If REQUIRED_UID is not -1, then skip files with any other user ID. 
If REQUIRED_GID is not -1, then skip files with any other group ID. 
CHOPT specifies additional options. 
Return true if successful. */

static bool change_file_owner (FTS *fts, FTSENT *ent, 
    uid_t uid, gid_t gid, 
    uid_t required_uid, gid_t required_gid, 
    struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
        case FTS_D:
        {
            if (chopt->recurse)
                {
                    if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
                        {
                            /* This happens e.g., with "chown -R --preserve-root 0 /" 
                                and with "chown -RH --preserve-root 0 symlink-to-root". */
                            ROOT_DEV_INO_WARN (file_full_name);
                            /* Tell fts not to traverse into this hierarchy. */
                            fts_set (fts, ent, FTS_SKIP);
                            /* Ensure that we do not process "/" on the second visit. */
                            ignore_value (fts_read (fts));
                            return false;
                        }
                return true;
            break;
        }
        case FTS_DP:
        if (! chopt->recurse)
            return true;
        break;

        case FTS_NS:
        /* For a top-level file or directory, this FTS_NS (stat failed)
indicator is determined at the time of the initial fts_open call. With programs like chmod, chown, and chgrp, that modify permissions, it is possible that the file in question is accessible when control reaches this point. So, if this is the first time we've seen the FTS_NS for this file, tell fts_read to stat it "again". */ if (ent->fts_level == 0 && ent->fts_number == 0) {
    ent->fts_number = 1;
    fts_set (fts, ent, FTS_AGAIN);
    return true;
}
if (! chopt->force_silent)
    error (0, ent->fts_errno, _("cannot access %s"),
          quote (file_full_name));
ok = false;
break;

  case FTS_ERR:
    if (! chopt->force_silent)
      error (0, ent->fts_errno, _("cannot access %s"),
             quote (file_full_name));
    ok = false;
    break;

  case FTS_DNR:
    if (! chopt->force_silent)
      error (0, ent->fts_errno, _("cannot read directory %s"),
             quote (file_full_name));
    ok = false;
    break;

  case FTS_DC:// directory that causes cycles */
    if (cycle_warning_required (fts, ent))
      {
      emit_cycle_warning (file_full_name);
      return false;
    }
    break;

  default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
  && chopt->verbosity == V_off
  && ! chopt->root_dev_ino
  && ! chopt->affect_symlink_referent)
{
  do_chown = true;
  file_stats = ent->fts_statp;
}
else
{
  file_stats = ent->fts_statp;

  /* If this is a symlink and we're dereferencing them,
   * stat it to get info on the referent. */
  if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
  {
    if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
    {
      if (! chopt->force_silent)
        error (0, errno, _("cannot dereference %s"),
               quote (file_full_name));
      ok = false;
    }
  }
  file_stats = &stat_buf;
}

do_chown = (ok
  && (required_uid == (uid_t) -1
      || required_uid == file_stats->st_uid)
  && (required_gid == (gid_t) -1
      || required_gid == file_stats->st_gid));

/* This happens when chown -LR --preserve-root encounters a symlink-to/.
 */
if (ok
  && FTSENT_IS_DIRECTORY (ent)
  && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
  ROOT_DEV_INO_WARN (file_full_name);
  return false;
}

if (do_chown)
{
  if ( ! chopt->affect_symlink_referent)
  {
    ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);
  }
/* Ignore any error due to lack of support; POSIX requires
this behavior for top-level symbolic links with -h, and
implies that it's required for all symbolic links. */
if (!ok && errno == EOPNOTSUPP)
{
    ok = true;
symlink_changed = false;
}
else
{
    /* If possible, avoid a race condition with --from=O:G and without the
(-h) --no-dereference option. If fts's stat call determined
that the uid/gid of FILE matched the --from=O:G-selected
owner and group IDs, blindly using chown(2) here could lead
chown(1) or chgrp(1) mistakenly to dereference a *symlink*
to an arbitrary file that an attacker had moved into the
place of FILE during the window between the stat and
chown(2) calls. If FILE is a regular file or a directory
that can be opened, this race condition can be avoided safely. */

enum RCH_status err
    = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                        required_uid, required_gid);
switch (err)
{
    case RC_ok:
        break;
    case RC_do_ordinary_chown:
        ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        break;
    case RC_error:
        ok = false;
        break;
    case RC_inode_changed:
        /* FIXME: give a diagnostic in this case? */
        break;
    case RC_excluded:
        do_chown = false;
        ok = false;
        break;
    default:
        abort ();
    }
/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && ! chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
        ? _("changing ownership of %s")
        : _("changing group of %s")),
    quote (file_full_name));

if (chopt->verbosity != V_off)
{
    bool changed =
        ((do_chown && ok && symlink_changed)
        && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
        && (gid == (gid_t) -1 || gid == file_stats->st_gid));

    if (changed || chopt->verbosity == V_high)
    {
        enum Change_status ch_status =
            (!ok ? CH_FAILED
            : !symlink_changed ? CH_NOT_APPLIED
            : !changed ? CH_NO_CHANGE_REQUESTED
            : CH_SUCCEEDED);
        char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
        char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
        describe_change (file_full_name, ch_status,
            old_usr, old_grp,
            chopt->user_name, chopt->group_name);
        free (old_usr);
        free (old_grp);
    }
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);

return ok;

/*/ Change the owner and/or group of the specified FILES.
BIT_FLAGS specifies how to treat each symlink-to-directory
that is encountered during a recursive traversal.

CHOPT specifies additional options.

If UID is not -1, then change the owner id of each file to UID.
If GID is not -1, then change the group id of each file to GID.
If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
files with user ID and group ID that match the non-(-1) value(s).
Return true if successful. */

extern bool
chown_files (char **files, int bit_flags,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid,
struct Chown_option const *chopt)
{
  bool ok = true;

  /* Use lstat and stat only if they're needed. */
  int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
           || chopt->affect_symlink_referent
           || chopt->verbosity != V_off)
     ? 0
     : FTS_NOSTAT);

  FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

  while (1)
  {
    FTSENT *ent;

    ent = fts_read (fts);
    if (ent == NULL)
    {
      if (errno != 0)
      {
        /* FIXME: try to give a better message */
        if (! chopt->force_silent)
          error (0, errno, _("fts_read failed"));
        ok = false;
      }
      break;
    }

    ok &= change_file_owner (fts, ent, uid, gid,
                             required_uid, required_gid, chopt);
  }

  if (fts_close (fts) != 0)
  {
    error (0, errno, _("fts_close failed"));
  }
ok = false;
}

return ok;
}

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```

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Protocol Buffers for Go with Gadgets

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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1.104 curl 7.52.1-5+deb9u7

1.104.1 Available under license:

License Mixing

=============

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!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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## mbedTLS

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1.105 curl 7.29.0-51.el7_6.3

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#ifdef HAVE_SETMODE
#ifdef HAVE_IO_H
# include <io.h>
#endif

#include "tool_binmode.h"

#include "$memdebug.h" /* keep this as LAST include */

void set_binmode(FILE *stream)
{
 #ifdef O_BINARY
 # ifdef __HIGHC__
 _setmode(stream, O_BINARY);
 # else
 setmode(fileno(stream), O_BINARY);
 # endif
 #else
 (void)stream;
 #endif
}

#endif /* HAVE_SETMODE */

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1.107 dash 0.5.8 :2.1ubuntu2

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1.109 dbus 1.10.24 :13.el7_6

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1.116 debianutils 4.8.1.1

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1.117 debianutils 4.8.1.1

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1.118 device-mapper 1.02.158 :2.el7

1.119 device-mapper-event 1.02.149 :10.el7_6.2

1.120 device-mapper-event 1.02.158 :2.el7

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1.121 device-mapper-event-libs 1.02.158
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1.122 device-mapper-libs 1.02.158 :2.el7

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1.124 dhclient 4.2.5 :68.el7.centos.1

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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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* 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 3a0982da308228d796df35f98d787c5cf2bb5b6.

  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.

Author: Julio Merino <jmmv84@gmail.com>

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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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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.

Author: Julio Merino <jmmv84@gmail.com>

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <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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1.125 dhclient 4.2.5 :77.el7.centos

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver. 
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```
* DNS resolver (dirmegr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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package licensing

import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
    url := c.baseURI  
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)  
    license := new(model.IssuedLicense)  
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
        return nil, err  
    }  
    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not  
// interrogate the contents of the license.  
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {  
    keyID := license.KeyID  
    privateKey := license.PrivateKey  
    authorization, err := c.getAuthorization(ctx, license)  
    if err != nil {  
        return nil, err  
    }  
    signature, err := libtrust.ParseJWS(authorization)  
    if err != nil {  
        return nil, errors.Wrapf(err, errors.Fields{  
            "key_id": keyID,  
        }, "license parse JWS failed")  
    }
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"`
    Token       string    `json:"token"`
    MaxEngines  int       `json:"maxEngines"`
    ScanningEnabled bool     `json:"scanningEnabled"`
    Type        string    `json:"licenseType"`
    Tier        string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID      string `json:"key_id"`
    PrivateKey string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }
}
return true, ""
}

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1.137 docker-engine 18.09.2

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Go support for Protocol Buffers - Google's data interchange format

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procd provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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1.144 dracut-network 033 :554.el7

1.145 dumb-init 1.2.0-1
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1.146 e2fslibs amd64:1.43.4-2

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Theodore Ts'o
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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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# 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)

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Gadi Oxman, August 1995

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

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```
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This package was added to the e2fsprogs debian source package by
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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Theodore Ts'o
23-June-2007

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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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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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# 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) $(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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*/

Index: tdbsa/tdb.c

===================================================================
--- 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
-
- Copyright (C) Andrew Tridgell 2005
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+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul 'Rusty' Russell 2000
** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released

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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Index: tdbsa/tdb.c
===================================================================
--- 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
-
- Copyright (C) Andrew Tridgell 2005
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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"
@makedirs -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)

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Gadi Oxman, August 1995

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

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<one line to give the program's name and a brief idea of what it does.>
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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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.149 e2fsprogs 1.43.4 :2

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Theodore Ts'o
23-June-2007

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 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 written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdsa/tdb.c
===================================================================
--- tdsa.orig/tdb.c
+++ tdsa/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 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_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) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(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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Gadi Oxman, August 1995

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Easy-RSA -- A Shell-based CA Utility

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1.155 elasticdump 3.3.19

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// ------------------------------------------------------------------

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From: 'an unknown organization'
- geronimo-jms_1.1_spec  org.apache.geronimo.specs:geronimo-jms_1.1_spec:jar:1.0

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May 22, 2015

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{stack-ov}/license-management.html[Start a 30-day trial] to try out all of the
paid commercial features. See the
https://www.elastic.co/subscriptions[Subscriptions] page for information about
Elastic license levels.
[role="xpack"]
[[license-settings]]

```
+++ (xpack) License Settings
++++
<titleabbrev>License Settings</titleabbrev>
++++
```

You can configure this licensing setting in the `elasticsearch.yml` file.
For more information, see
{xpack-ref}/license-management.html[ {xpack} License Management].

`xpack.license.self_generated.type`:
Set to `basic` (default) to enable basic {xpack} features. +
If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.

```json
[role="xpack"]
[testenv="basic"]
[[update-license]]
```  

=== Update License API

This API enables you to update your license.

```json
[request]
==== Request

`PUT _xpack/license`

[request]
==== Description

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[request]
==== Query Parameters

`acknowledge`:  
(boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

[request]
==== Request Body

`licenses`::  
(array) A sequence of one or more JSON documents containing the license information.

[request]
==== Authorization
If `security` is enabled, you need `manage` cluster privileges to install the license.

If `security` is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See `<<configuring-tls>>`.

[...] Examples

The following example updates to a basic license:

[source,js]
-------------------------------------------------------------
POST _xpack/license
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}
-------------------------------------------------------------

// CONSOLE
// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

[source,js]
[source,shell]
-------------------------------
curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json
-------------------------------

// NOTCONSOLE

On Windows machine, use the following command:

[source,shell]
In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of the {es} node (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```javascript
{   
    "acknowledged": false,
    "license_status": "valid",
    "acknowledge": {   
        "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:"",
        "watcher": [   
            "Watcher will be disabled"
        ],
        "logstash": [   
            "Logstash will no longer poll for centrally-managed pipelines"
        ],
        "security": [   
            "The following X-Pack security functionality will be disabled: ..."
        ]
    }
}
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

```javascript
POST _xpack/license?acknowledge=true
{
    "licenses": [
```
Alternatively:

[source,sh]
--------------------------------------------
curl -XPUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json" -d @license.json
--------------------------------------------

For more information about the features that are disabled when you downgrade your license, see {xpack-ref}/license-expiration.html[License Expiration].

This API enables you to delete licensing information.

[float]
==== Request

`DELETE /_xpack/license`

[float]
==== Description

When your license expires, {xpack} operates in a degraded mode. For more information, see {xpack-ref}/license-expiration.html[License Expiration].

[float]
==== Authorization
You must have `manage` cluster privileges to use this API. For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

[float]
==== Examples

The following example queries the info API:

[source,js]
-----------------------------------------------
DELETE _xpack/license
------------------------------
// CONSOLE

When the license is successfully deleted, the API returns the following response:

[source,js]
-----------------------------------------------
{
  "acknowledged": true
}
-----------------------------------------------
// NOTCONSOLE
[role="xpack"]
[testenv="basic"]
[[get-license]]

This API enables you to retrieve licensing information.

[float]
==== Request

`GET /_xpack/license`

[float]
==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[float]
==== Query Parameters
'local':
(
boolean) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.

[float]
==== Authorization

You must have 'monitor' cluster privileges to use this API.
For more information, see
{xpack-ref}/security-privileges.html[Security Privileges].

[float]
==== Examples

The following example provides information about a trial license:

[source,js]
--------------------------------------------------
GET _xpack/license
--------------------------------------------------
// CONSOLE
[source,js]
--------------------------------------------------
{
  "license": {
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type": "trial",
    "issue_date": "2018-10-20T22:05:12.332Z",
    "issue_date_in_millis": 1540073112332,
    "expiry_date": "2018-11-19T22:05:12.332Z",
    "expiry_date_in_millis": 1542665112332,
    "max_nodes": 1000,
    "issued_to": "test",
    "issuer": "elasticsearch",
    "start_date_in_millis": -1
  }
}
--------------------------------------------------
// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE[s/"basic"/$body.license.type/]
// TESTRESPONSE[s/"2018-10-20T22:05:12.332Z"/$body.license.issue_date/]
// TESTRESPONSE[s/1540073112332/$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/"2018-11-19T22:05:12.332Z"/$body.license.expiry_date/]
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The license can be deleted using the `deleteLicense()` method:

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute]
```

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which
returns true if the request was processed by all nodes.

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-response]
```

<1> Check the acknowledge flag. It should be true if license deletion is acknowledged.

### Asynchronous Execution

This request can be executed asynchronously:
<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument

The license can be added or updated using the `putLicense()` method:

<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if `{xpack}` is installed but not much else.
<2> A JSON document containing the license information.

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will
still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

<1> The status of the license
<2> Make sure that the license is valid.
<3> Check the acknowledge flag. It should be true if license is acknowledged.
<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`
<5> and check component-specific messages in `acknowledgeMessages()`.

=== Asynchronous Execution

This request can be executed asynchronously:

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

```
<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument
```

=== Get License

The license can be added or updated using the `getLicense()` method:

```
The returned `GetLicenseResponse` contains the license in the JSON format.

The text of the license.

This request can be executed asynchronously:

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

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Posted Date: April 20, 2018

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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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### The art of simplicity is a puzzle of complexity.###

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

### SnakeYAML features ###

- a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
- Unicode support including UTF-8/UTF-16 input/output.
- high-level API for serializing and deserializing native Java objects.
- support for all types from the [YAML types repository](http://yaml.org/type/index.html).
- relatively sensible error messages.

### Info ###

- [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
- [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

### Contribute ###

- Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
- If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
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 */

class StartBasicResponseTests extends ESTestCase {

    public void testFromXContent() throws Exception {
        StartBasicResponse.Status status = randomFrom(StartBasicResponse.Status.values());

        boolean acknowledged = status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

        // More test code...
    }

    // More test methods...
}

import org.elasticsearch.client.license;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.client.common.ProtocolUtils;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.hamcrest.CoreMatchers.equalTo;

package org.elasticsearch.client.license;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.hamcrest.CoreMatchers.equalTo;

public class StartBasicResponseTests extends ESTestCase {

    public void testFromXContent() throws Exception {
        StartBasicResponse.Status status = randomFrom(StartBasicResponse.Status.values());

        boolean acknowledged = status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

        // More test code...
    }

    // More test methods...
}

import org.elasticsearch.client.license;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.client.common.ProtocolUtils;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.hamcrest.CoreMatchers.equalTo;

public class StartBasicResponseTests extends ESTestCase {

    public void testFromXContent() throws Exception {
        StartBasicResponse.Status status = randomFrom(StartBasicResponse.Status.values());

        boolean acknowledged = status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

        // More test code...
    }

    // More test methods...
}
String acknowledgeMessage = null;
Map<String, String[]> ackMessages = Collections.emptyMap();
if (status != StartBasicResponse.Status.GENERATED_BASIC) {
    acknowledgeMessage = randomAlphaOfLength(10);
    ackMessages = randomAckMessages();
}

final StartBasicResponse startBasicResponse = new StartBasicResponse(status, ackMessages, acknowledgeMessage);

XContentType xContentType = randomFrom(XContentType.values());
XContentBuilder builder = XContentFactory.contentBuilder(xContentType);
toXContent(startBasicResponse, builder);

final StartBasicResponse response = StartBasicResponse.fromXContent(createParser(builder));
assertThat(response.isAcknowledged(), equalTo(acknowledged));
assertThat(response.isBasicStarted(), equalTo(status.isBasicStarted()));
assertThat(response.getAcknowledgeMessage(), equalTo(acknowledgeMessage));
assertThat(ProtocolUtils.equals(response.getAcknowledgeMessages(), ackMessages), equalTo(true));

private static void toXContent(StartBasicResponse response, XContentBuilder builder) throws IOException {
    builder.startObject();
    builder.field("acknowledged", response.isAcknowledged());
    if (response.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", response.getErrorMessage());
    }
    if (response.getAcknowledgeMessages().isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", response.getAcknowledgeMessage());
        for (Map.Entry<String, String[]> entry : response.getAcknowledgeMessages().entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
    builder.endObject();
}

private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);
Map<String, String[]> ackMessages = new HashMap<>();

for (int i = 0; i < nFeatures; i++) {
    String feature = randomAlphaOfLengthBetween(9, 15);
    int nMessages = randomIntBetween(1, 5);
    String[] messages = new String[nMessages];
    for (int j = 0; j < nMessages; j++) {
        messages[j] = randomAlphaOfLengthBetween(10, 30);
    }
    ackMessages.put(feature, messages);
}

return ackMessages;
}

package org.elasticsearch.client.license;
import org.elasticsearch.client.Validatable;
public class GetLicenseRequest implements Validatable {
    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {

    }

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     */
    package org.elasticsearch.client.license;

    import org.elasticsearch.client.Validatable;

    public class GetLicenseRequest implements Validatable {
        protected boolean local = false;

        public GetLicenseRequest() {
        }

        public boolean isLocal() {
        }
package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;
import org.elasticsearch.common.Nullable;

public class StartTrialRequest implements Validatable {

    private final boolean acknowledge;
    private final String licenseType;

    public StartTrialRequest() {
        this(false);
    }

    public StartTrialRequest(boolean acknowledge) {
        this(acknowledge, null);
    }

    public StartTrialRequest(boolean acknowledge, @Nullable String licenseType) {
        this.acknowledge = acknowledge;
        this.licenseType = licenseType;
    }

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     */

    private final boolean local = false;

    public void setLocal(boolean local) {
        this.local = local;
    }
}

import org.elasticsearch.client.license.StartTrialRequest;
public boolean isAcknowledge() {
    return acknowledge;
}

public String getLicenseType() {
    return licenseType;
}

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 */

/**
 * Request and Response objects for the default distribution's License
 * APIs.
 */
package org.elasticsearch.client.license;

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package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class PutLicenseRequest extends TimedRequest {
    private String licenseDefinition;

private boolean acknowledge = false;

public PutLicenseRequest() {
}

public void setLicenseDefinition(String licenseDefinition) {
    this.licenseDefinition = licenseDefinition;
}

public String getLicenseDefinition() {
    return licenseDefinition;
}

public void setAcknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
}

public boolean isAcknowledge() {
    return acknowledge;
}

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*/
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.rest.RestStatus;

import org.elasticsearch.common.xcontent.ConstructingObjectParser.ConstructingObjectParserFactory;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;
import static org.elasticsearch.common.xcontent.XContentParserUtils.ensureExpectedToken;

public class StartBasicResponse {

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
        ConstructingObjectParser<StartBasicResponse, Void>(
            "start_basic_response", true, (a, v) -> {
                boolean basicWasStarted = (Boolean) a[0];
                String errorMessage = (String) a[1];

                if (basicWasStarted) {
                    return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
                }

                StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);

                @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
                    Map<String, String[]>>) a[2];

                return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
            });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("basic_was_started"));
        PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            XContentParser.Token token;
            String currentFieldName = null;
            while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else {
                    if (currentFieldName == null) {
                        throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                            acknowledgement");
                    } else {
                        if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
                            ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
                        }
                    }
                }
            }
        });
    }

message = parser.text();

} else {
    if (token != XContentParser.Token.START_ARRAY) {
        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
    }

    List<String> acknowledgeMessagesList = new ArrayList<>();
    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
        ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
        acknowledgeMessagesList.add(parser.text());
    }
    acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
}

return new Tuple<>(message, acknowledgeMessages);

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

enum Status {
    GENERATED_BASIC(true, null, RestStatus.OK),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
    NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

    private final boolean isBasicStarted;
    private final String errorMessage;
    private final RestStatus restStatus;

    Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
        this.isBasicStarted = isBasicStarted;
        this.errorMessage = errorMessage;
        this.restStatus = restStatus;
    }

    String getErrorMessage() {
        return errorMessage;
    }

    boolean isBasicStarted() {
        return isBasicStarted;
    }

    static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {

}
final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
for (StartBasicResponse.Status status : values) {
    if (Objects.equals(status.errorMessage, errorMessage)) {
        return status;
    }
}
throw new IllegalArgumentException("No status for error message [" + errorMessage + "]");

private StartBasicResponse.Status status;

public StartBasicResponse() {
}

StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}

StartBasicResponse(StartBasicResponse.Status status,
        Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public boolean isAcknowledged() {
    return status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
}

public boolean isBasicStarted() {
    return status.isBasicStarted;
}

public String getErrorMessage() {
    return status.errorMessage;
}

public String getAcknowledgeMessage() {
    return acknowledgeMessage;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

public static StartBasicResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.client.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {
    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser(
            "put_license_response", true, (a, v) -> {

    boolean acknowledged = (Boolean) a[0];

    });

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser(
            "put_license_response", true, (a, v) -> {

    boolean acknowledged = (Boolean) a[0];

    });

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser(
            "put_license_response", true, (a, v) -> {

    boolean acknowledged = (Boolean) a[0];

    });
LicenseStatus licensesStatus = LicenseStatus.fromString((String) a[1]);

SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
Map<String, String[]>>) a[2];

if (acknowledgements == null) {
  return new PutLicenseResponse(acknowledged, licensesStatus);
} else {
  return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
acknowledgements.v2());
}

});

static {
  PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
  PARSER.declareString(constructorArg(), new ParseField("license_status"));
  PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
    Map<String, String[]> acknowledgeMessages = new HashMap<>();
    String message = null;
    XContentParser.Token token;
    String currentFieldName = null;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
      if (token == XContentParser.Token.FIELD_NAME) {
        currentFieldName = parser.currentName();
      } else {
        if (currentFieldName == null) {
          throw new XContentParseException(parser.getTokenLocation(), "expected message header or
acknowledgement");
        }
        if ("message".equals(currentFieldName)) {
          if (token != XContentParser.Token.VALUE_STRING) {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected message header
            type");
          }
          message = parser.text();
        } else {
          if (token != XContentParser.Token.START_ARRAY) {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
            type");
          }
        }
      }
    }
    List<String> acknowledgeMessagesList = new ArrayList<>();
    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
      if (token != XContentParser.Token.VALUE_STRING) {
        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
        text");
      }
      acknowledgeMessagesList.add(parser.text());
    }
    acknowledgeMessagesList.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
  });
public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
    Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public boolean isAcknowledged() {
    return acknowledged;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}
@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    PutLicenseResponse that = (PutLicenseResponse) o;
    return status == that.status &&
            ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
            Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status,ProtocolUtils.hashCode(acknowledgeMessages),
            acknowledgeHeader);
}
*/
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 */
package org.elasticsearch.client.license;

public class GetLicenseResponse {

    private String license;

    GetLicenseResponse() {

    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

}
public String getLicenseDefinition() {
    return license;
}

public String getLicenseDefinition() {
    return license;
}

public String getLicenseDefinition() {
    return license;
}

package org.elasticsearch.client.license;

/**
 * Status of an X-Pack license.
 * /
 public enum LicenseStatus {

    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public static LicenseStatus fromString(String value) {
        switch (value) {

case "active":
    return ACTIVE;
    case "invalid":
    return INVALID;
    case "expired":
    return EXPIRED;
    default:
    throw new IllegalArgumentException("unknown license status [\" + value + "]");
}}
*/

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {

}

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 */

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {

}
@SuppressWarnings("unchecked")
final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)(arguments[4];
final String acknowledgeHeader;
final Map<String, String[]> acknowledgeMessages;

if (acknowledgeDetails != null) {
    acknowledgeHeader = acknowledgeDetails.v1();
    acknowledgeMessages = acknowledgeDetails.v2();
} else {
    acknowledgeHeader = null;
    acknowledgeMessages = null;
return new StartTrialResponse(acknowledged, trialWasStarted, licenseType, errorMessage, acknowledgeHeader, acknowledgeMessages);
}
);

static {
PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
PARSER.declareBoolean(constructorArg(), new ParseField("trial_was_started"));
PARSER.declareString(optionalConstructorArg(), new ParseField("type"));
PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
// todo consolidate this parsing with the parsing in PutLicenseResponse
PARSER.declareObject(optionalConstructorArg(), (parser, aVoid) -> {
final Map<String, String[]> acknowledgeMessages = new HashMap<>();
String message = null;

final Map<String, Object> parsedMap = parser.map();
for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
if (entry.getKey().equals("message")) {
if (entry.getValue() instanceof String) {
message = (String) entry.getValue();
} else {
throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement header type");
}
} else {
if (entry.getValue() instanceof List) {
final List<String> messageStrings = new ArrayList<>();
@SuppressWarnings("unchecked")
final List<Object> messageObjects = (List<Object>) entry.getValue();
for (Object messageObject : messageObjects) {
if (messageObject instanceof String) {
messageStrings.add((String) messageObject);
} else {
throw new XContentParseException(parser.getTokenLocation(), "expected text in acknowledgement message");
}

acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
} else {
throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement message type");
}
}

}
if (message == null) {
    throw new XContentParseException(parser.getTokenLocation(), "expected acknowledgement header");
}

return new Tuple<>(message, acknowledgeMessages);
}

public static StartTrialResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.apply(parser, null);
}

private final boolean acknowledged;
private final boolean trialWasStarted;
private final String licenseType;
private final String errorMessage;
private final String acknowledgeHeader;
private final Map<String, String[]> acknowledgeMessages;

public StartTrialResponse(boolean acknowledged,
        boolean trialWasStarted,
        String licenseType,
        String errorMessage,
        String acknowledgeHeader,
        Map<String, String[]> acknowledgeMessages) {

    this.acknowledged = acknowledged;
    this.trialWasStarted = trialWasStarted;
    this.licenseType = licenseType;
    this.errorMessage = errorMessage;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public boolean isAcknowledged() {
    return acknowledged;
}

/**
 * Returns true if a trial license was started as a result of the request corresponding to this response. Returns false
if the cluster
* did not start a trial, or a trial had already been started before the corresponding request was made
*/

    public boolean isTrialWasStarted() {
        return trialWasStarted;
    }

/**
 * If a trial license was started as a result of the request corresponding to this response (see { @link 
#isTrialWasStarted() } ) then
 * returns the type of license that was started on the cluster. Returns null otherwise
 */
    public String getLicenseType() {
        return licenseType;
    }

/**
 * If a trial license was not started as a result of the request corresponding to this response (see { @link 
#isTrialWasStarted() } ) then
 * returns a brief message explaining why the trial could not be started. Returns false otherwise
 */
    public String getErrorMessage() {
        return errorMessage;
    }

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see { @link #isAcknowledged() } ), returns a message describing how the user must acknowledge licensing
 * changes as a result of
 * such a request. Returns null otherwise
 */
    public String getAcknowledgeHeader() {
        return acknowledgeHeader;
    }

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see { @link #isAcknowledged() } ), returns a map. The map's keys are names of commercial Elasticsearch
 * features, and their values are
 * messages about how those features will be affected by licensing changes as a result of starting a trial license
 */
    public Map<String, String[]> getAcknowledgeMessages() {
        return acknowledgeMessages;
    }
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*/
package org.elasticsearch.client.license;

import java.util.Locale;

public enum LicensesStatus { 
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id=" + id);
        }
    }
}
@Override
public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {
    switch (value) {
    case "valid":
        return VALID;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown licenses status [" + value + "]");
    }
}

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 */
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;

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import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseGenerationToolTests extends CommandTestCase {

  protected Path pubKeyPath = null;
  protected Path priKeyPath = null;

  @Before
  public void setup() throws Exception {
    pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
    priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
  }

  @Override
  protected Command newCommand() {
    return new LicenseGeneratorTool();
  }

  public void testMissingKeyPaths() throws Exception {
    Path pub = createTempDir().resolve("pub");
    Path pri = createTempDir().resolve("pri");
    UserException e = expectThrows(
      UserException.class,
      () -> execute(
        "--publicKeyPath",
        pub.toString(),
        "--privateKeyPath",
        pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
    Files.createFile(pri);
    e = expectThrows(
      UserException.class,
      () -> execute(
        "--publicKeyPath",
        pub.toString(),
        "--privateKeyPath",
        pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
  }

  public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
      UserException.class,
      () -> execute("--publicKeyPath", pub.toString(), "--privateKeyPath", pri.toString()));
    assertEquals(ExitCodes.USAGE, e.exitCode);
  }

  public void testInvalidLicenseSpec() throws Exception {
    UserException e = expectThrows(
      UserException.class,
      () -> execute("--publicKeyPath", pub.toString(), "--privateKeyPath", pri.toString()));
    assertEquals(ExitCodes.USAGE, e.exitCode);
  }
}

---
UserException.class,
() -> execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--privateKeyPath",
priKeyPath.toString()));
assertTrue(
  e.getMessage(),
  e.getMessage().contains("Must specify either --license or --licenseFile"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
  TestUtils.LicenseSpec inputLicenseSpec =
  TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
  String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
  String output = execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--privateKeyPath",
priKeyPath.toString(),
"--license",
licenseSpecString);
  final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
  License outputLicense = License.fromSource(bytes, XContentType.JSON);
  TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
  TestUtils.LicenseSpec inputLicenseSpec =
  TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
  String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
  Path licenseSpecFile = createTempFile();
  Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
  String output = execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--privateKeyPath",
priKeyPath.toString(),
"--licenseFile",
licenseSpecFile.toString());
  final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
  License outputLicense = License.fromSource(bytes, XContentType.JSON);
  TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}
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*/
package org.elasticsearch.license.licensor.tools;
import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import java.nio.file.Files;
import java.nio.file.Path;
import static org.hamcrest.CoreMatchers.containsString;
public class KeyPairGenerationToolTests extends CommandTestCase {
@Override
protected Command newCommand() {
return new KeyPairGeneratorTool();
}
public void testMissingKeyPaths() throws Exception {
Path exists = createTempFile("", "existing");
Path dne = createTempDir().resolve("dne");
UserException e = expectThrows(
UserException.class,
() -> execute(
"--publicKeyPath",
exists.toString(),
"--privateKeyPath",
dne.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
e = expectThrows(
UserException.class,
() -> execute(
"--publicKeyPath",
dne.toString(),
"--privateKeyPath",
exists.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}
public void testTool() throws Exception {

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Path keysDir = createTempDir();
Path publicKeyFilePath = keysDir.resolve("public");
Path privateKeyFilePath = keysDir.resolve("private");

execute(
    "--publicKeyPath",
    publicKeyFilePath.toString(),
    "--privateKeyPath",
    privateKeyFilePath.toString());
assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
}
}
public void testMissingKeyPath() throws Exception {
    Path pub = createTempDir().resolve("pub");
    UserException e = expectThrows(UserException.class, () -> execute("--publicKeyPath", pub.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(UserException.class, () -> {
        execute("--publicKeyPath", pubKeyPath.toString());
    });
    assertTrue(e.getMessage(), e.getMessage().contains("Must specify either --license or --licenseFile");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testBrokenLicense() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
    UserException e = expectThrows(UserException.class, () -> execute("--publicKeyPath", pubKeyPath.toString(), "--license", TestUtils.dumpLicense(tamperedLicense));
    assertEquals("Invalid License!", e.getMessage());
    assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    String output = execute("--publicKeyPath", pubKeyPath.toString(), "--license", TestUtils.dumpLicense(signedLicense));
    assertFalse(output, output.isEmpty());
}
public void testLicenseSpecFile() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    Path licenseSpecFile = createTempFile();
    Files.write(licenseSpecFile, TestUtils.dumpLicense(signedLicense).getBytes(StandardCharsets.UTF_8));
    String output = execute("--publicKeyPath", pubKeyPath.toString(), "--licenseFile", licenseSpecFile.toString());
    assertFalse(output, output.isEmpty());
}

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 */
package org.elasticsearch.license.licensor;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.test.ESTestCase;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath("/public.key");
        priKeyPath = getDataPath("/private.key");
    }

    @After
    public void cleanUp() {
pubKeyPath = null;
priKeyPath = null;
}

public void testGeneratedLicenses() throws Exception {
    final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
    final License license =
        TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
}

public void testLicenseTampering() throws Exception {
    final TimeValue twoHours = TimeValue.timeValueHours(2);
    License license = TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);
    final License tamperedLicense = License.builder()
        .fromLicenseSpec(license, license.signature())
        .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
}

public void testRandomLicenseVerification() throws Exception {
    TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
        randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
    License generatedLicense = generateSignedLicense(licenseSpec, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(generatedLicense, Files.readAllBytes(pubKeyPath)));
}

private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }
}
if (spec.issueDate != null) {
    builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
} else {
    builder.issueDate(spec.issueDateInMillis);
}
builder.version(spec.version);
return signer.sign(builder.build());
}

package org.elasticsearch.license.licensor;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.time.DateMathParser;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.test.ESTestCase;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import java.io.IOException;
import java.nio.file.Path;
import java.util.UUID;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomIntBetween;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.hamcrest.core.IsEqual.equalTo;

public class TestUtils {
    public static final String PUBLIC_KEY_RESOURCE = "/public.key";
    public static final String PRIVATE_KEY_RESOURCE = "/private.key";

    public static final String LICENSE_BODY = "LICENSE BODY";
    public static final String LICENSE_SIG = "LICENSE SIG";
    public static final String PUBLIC_KEY = "PUBLIC KEY";
    public static final String PRIVATE_KEY = "PRIVATE KEY";
}
private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
private static final DateMathParser dateMathParser = formatDateTimeFormatter.toDateMathParser();
private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static String dateMathString(String time, final long now) {
    return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
}

public static long dateMath(String time, final long now) {
    return dateMathParser.parse(time, () -> now);
}

public static LicenseSpec generateRandomLicenseSpec(int version) {
    boolean datesInMillis = randomBoolean();
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    String issuer = "issuer__" + randomInt();
    String issuedTo = "issuedTo__" + randomInt();
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("basic", "silver", "dev", "gold", "platinum");
    final String subscriptionType;
    final String feature;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        subscriptionType = randomFrom("gold", "silver", "platinum");
        feature = "feature__" + randomInt();
    } else {
        subscriptionType = null;
        feature = null;
    }
    int maxNodes = randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startObject("license")
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
}

String issueDate = dateMathString("now", now);
String expiryDate = dateMathString("now+10d/d", now);
return new LicenseSpec(
    version,
    uid,
    feature,
    issueDate,
    expiryDate,
    type,
    subscriptionType,
    issuedTo,
    issuer,
    maxNodes);
}
licenses.endObject();
return Strings.toString(licenses);
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
MatcherAssert.assertThat(license.type(), equalTo(spec.type));
MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
if (spec.issueDate != null) {
    MatcherAssert.assertThat(license.issueDate(),
        equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
} else {
    MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
}
if (spec.expiryDate != null) {
    MatcherAssert.assertThat(license.expiryDate(),
        equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
} else {
    MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
}
}

public static License generateSignedLicense(
   TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
long issue = System.currentTimeMillis();
int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
String type = version < License.VERSION_NO_FEATURE_TYPE ?
    randomFrom("subscription", "internal", "development") :
    randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");
final License.Builder builder = License.builder()
    .uid(UUID.randomUUID().toString())
    .expiryDate(issue + expiryDuration.getMillis())
    .issueDate(issue)
    .version(version)
    .type(type)
    .issuedTo("customer")
    .issuer("elasticsearch")
    .maxNodes(5);
if (version == License.VERSION_START) {
    builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver");
    builder.feature(ESTestCase.randomAlphaOfLength(10));
}
LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
return signer.sign(builder.build());
public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        long issueDateInMillis,
        long expiryDateInMillis,
        String type,
        String subscriptionType,
        String issuedTo,
        String issuer,
        int maxNodes) {
        this.version = version;
        this.feature = feature;
        this.issueDateInMillis = issueDateInMillis;
        this.issueDate = null;
        this.expiryDateInMillis = expiryDateInMillis;
        this.expiryDate = null;
        this.uid = uid;
        this.type = type;
        this.subscriptionType = subscriptionType;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.maxNodes = maxNodes;
    }

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        String issueDate,
        String expiryDate,
String subscriptionType,
String issuedTo,
String issuer,
int maxNodes) {
this.version = version;
this.feature = feature;
this.issueDate = issueDate;
this.issueDateInMillis = -1;
this.expiryDate = expiryDate;
this.expiryDateInMillis = -1;
this.uid = uid;
this.type = type;
this.subscriptionType = subscriptionType;
this.issuedTo = issuedTo;
this.issuer = issuer;
this.maxNodes = maxNodes;
}
}

0"0

/*

es.logger.level=INFO
log4j.rootLogger=${es.logger.level}, out
log4j.logger.org.apache.http=INFO, out
log4j.additivity.org.apache.http=false
log4j.logger.org.elasticsearch.license=TRACE
log4j.appender.out=org.apache.log4j.ConsoleAppender
log4j.appender.out.layout=org.apache.log4j.PatternLayout
log4j.appender.out.layout.conversionPattern=[%d{ISO8601}][%-5p][%-25c] %m%n
*/

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package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.bytes.BytesRefIterable;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 *
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
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     * you may not use this file except in compliance with the Elastic License.
     */
package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.bytes.BytesRefIterable;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

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public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

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     * you may not use this file except in compliance with the Elastic License.
     */
package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.bytes.BytesRefIterable;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 *
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
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     * you may not use this file except in compliance with the Elastic License.
     */
* Generates a signature for the [licenseSpec]. Signature structure:
* 
* | VERSION | MAGIC | PUB_KEY_DIGEST | SIGNED_LICENSE_CONTENT |
* 
* @return a signed License
*/

public License sign(License licenseSpec) throws IOException {
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    final Map<String, String> licenseSpecViewMode = Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
    licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
    final byte[] signedContent;
    final boolean preV4 = licenseSpec.version() < License.VERSION_CRYPTO_ALGORITHMS;
    try {
        final Signature rsa = Signature.getInstance("SHA512withRSA");
        PrivateKey decryptedPrivateKey = CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath));
        rsa.initSign(decryptedPrivateKey);
        BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
        BytesRef ref;
        while((ref = iterator.next()) != null) {
            rsa.update(ref.bytes, ref.offset, ref.length);
        }
        signedContent = rsa.sign();
    } catch (InvalidKeyException | IOException | NoSuchAlgorithmException | SignatureException e) {
        throw new IllegalStateException(e);
    }
    final byte[] magic = new byte[MAGIC_LENGTH];
    SecureRandom random = new SecureRandom();
    random.nextBytes(magic);
    final byte[] publicKeyBytes = Files.readAllBytes(publicKeyPath);
    PublicKey publicKey = CryptUtils.readPublicKey(publicKeyBytes);
    final byte[] pubKeyFingerprint = preV4 ? Base64.getEncoder().encode(CryptUtils.writeEncryptedPublicKey(publicKey)) :
    getPublicKeyFingerprint(publicKeyBytes);
    final byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + pubKeyFingerprint.length + 4 +
    signedContent.length];
    ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
    byteBuffer.putInt(licenseSpec.version());
    byteBuffer.putInt(magic.length);
    byteBuffer.put(magic);
    byteBuffer.putInt(pubKeyFingerprint.length);
    byteBuffer.put(pubKeyFingerprint);
    byteBuffer.putInt(signedContent.length);
return License.builder()
  .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
  .build();
}

private byte[] getPublicKeyFingerprint(byte[] keyBytes) {
  MessageDigest sha256 = MessageDigests.sha256();
  sha256.update(keyBytes);
  return sha256.digest();
}

apply plugin: 'elasticsearch.build'

dependencies {
  compile "org.elasticsearch.plugin:x-pack-core:${version}" 
  compile "org.elasticsearch:elasticsearch:${version}" 
  testCompile "org.elasticsearch.test:framework:${version}" 
}

project.forbiddenPatterns {
  exclude '*/*.key'
}

dependencyLicenses.enabled = false

task buildZip(type: Zip, dependsOn: jar) {
  String parentDir = "license-tools-${version}"
  into(parentDir + '/lib') {
    from jar
    from configurations.runtime
  }
  into(parentDir + '/bin') {
    from 'bin'
  }
}

assemble.dependsOn buildZip

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 */

package org.elasticsearch.xpack;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.LicenseService;

import org.elasticsearch.xpackLicenseService;
import org.elasticsearch.license.XPackLicenseState;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.ssl.SSLService;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.watcher.Watcher;

import java.nio.file.Path;

public class CompositeTestingXPackPlugin extends LocalStateCompositeXPackPlugin {

    public CompositeTestingXPackPlugin(final Settings settings, final Path configPath) throws Exception {
        super(settings, configPath);
        CompositeTestingXPackPlugin thisVar = this;
        plugins.add(new Deprecation());
        plugins.add(new Graph(settings));
        plugins.add(new Logstash(settings));
        plugins.add(new MachineLearning(settings, configPath) {
            @Override
            protected XPackLicenseState getLicenseState() {
                return super.getLicenseState();
            }
        });
        plugins.add(new Monitoring(settings)) {
            @Override
            protected SSLService getSslService() {
                return thisVar.getSslService();
            }
        }
        plugins.add(new Watcher(settings)) {
            @Override
            protected SSLService getSslService() {
                return thisVar.getSslService();
            }
        }
    }
}
@Override
protected XPackLicenseState getLicenseState() { return thisVar.getLicenseState(); }
});
plugins.add(new Security(settings, configPath) {
    @Override
    protected SSLService getSslService() { return thisVar.getSslService(); }
    @Override
    protected XPackLicenseState getLicenseState() { return thisVar.getLicenseState(); }
});

/package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = TEST, transportClientRatio = 0, numClientNodes = 0, numDataNodes = 0)
public class MonitoringPluginTests extends MonitoringIntegTestCase {

    public MonitoringPluginTests() throws Exception {

        @Override
        protected XPackLicenseState getLicenseState() { return thisVar.getLicenseState(); }
    }

    public MonitoringPluginTests() throws Exception {
super();
}

@Override
protected void startMonitoringService() {
    // do nothing as monitoring is sometime unbound
}

@Override
protected void stopMonitoringService() {
    // do nothing as monitoring is sometime unbound
}

@Override
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
plugins.add(MockTribePlugin.class);
plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
return plugins;
}

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put(MonitoringService.INTERVAL.getKey(), "-1")
            .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
            .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
            .build();
}

@Override
protected Settings transportClientSettings() {
    return Settings.builder()
            .put(super.transportClientSettings())
            .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
            .build();
}

public void testMonitoringEnabled() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
            .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabled() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
            .build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

public void testMonitoringEnabledOnTribeNode() {
    internalCluster().startNode(Settings.builder()
            .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
            .put("tribe.name", "t1")
            .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}
public void testMonitoringDisabledOnTribeNode() {
    internalCluster().startNode(Settings.builder().put("tribe.name", "t1").build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

private void assertPluginIsLoaded() {
    NodesInfoResponse response = client().admin().cluster().prepareNodesInfo().setPlugins(true).get();
    for (NodeInfo nodeInfo : response.getNodes()) {
        assertNotNull(nodeInfo.getPlugins());

        boolean found = false;
        for (PluginInfo plugin : nodeInfo.getPlugins().getPluginInfos()) {
            assertNotNull(plugin);
            if (LocalStateMonitoring.class.getName().equals(plugin.getName())) {
                found = true;
                break;
            }
        }
        assertThat("xpack plugin not found", found, equalTo(true));
    }
}

private void assertServiceIsBound(Class<?> klass) {
    try {
        Object binding = internalCluster().getDataNodeInstance(klass);
        assertNotNull(binding);
        assertTrue(klass.isInstance(binding));
    } catch (Exception e) {
        fail("no service bound for class " + klass.getSimpleName());
    }
}

private void assertServiceIsNotBound(Class<?> klass) {
    try {
        // it should be bound, but directly as null
        assertNull(internalCluster().getDataNodeInstance(klass));
    } catch (Exception ce) {
        assertThat("message contains error about missing implementation: " + ce.getMessage(),
                    ce.getMessage().contains("Could not find a suitable constructor"), equalTo(true));
    }
}

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 */
package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.client.Client;
import org.elasticsearch.license.TribeTransportTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkAction;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkRequest;

import java.util.Collections;
import java.util.List;

public class MonitoringTribeTests extends TribeTransportTestCase {

    @Override
    protected List<String> enabledFeatures() {
        return Collections.singletonList(XPackField.MONITORING);
    }

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertMonitoringTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertMonitoringTransportActionsWorks(masterClient);
    }

    @Override
    protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
        assertMonitoringTransportActionsWorks(dataNodeClient);
    }

    private static void assertMonitoringTransportActionsWorks(Client client) throws Exception {
        client.execute(MonitoringBulkAction.INSTANCE, new MonitoringBulkRequest());
    }

    @Override
    protected void verifyActionOnTribeNode(Client tribeClient) {
        failAction(tribeClient, MonitoringBulkAction.INSTANCE);
    }
}

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 */
package org.elasticsearch.test;

import org.elasticsearch.Build;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.GetLicenseResponse;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicensingClient;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.AfterClass;
import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import static org.hamcrest.CoreMatchers.equalTo;

public class LicensingTribeIT extends ESIntegTestCase {

    private static TestCluster cluster2;
    private static TestCluster tribeNode;

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Collections.singletonList(XPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    public void setUp() throws Exception {
        super.setUp();
        if (cluster2 == null) {
            cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
        }
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Collections.singletonList(XPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    public void setUp() throws Exception {
        super.setUp();
        if (cluster2 == null) {
            cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
        }
    }

    public class LicensingTribeIT extends ESIntegTesteastCase {
        private static TestCluster cluster2;
        private static TestCluster tribeNode;

        @Override
        protected Collection<Class<? extends Plugin>> nodePlugins() {
            return Collections.singletonList(XPackPlugin.class);
        }

        @Override
        protected Collection<Class<? extends Plugin>> transportClientPlugins() {
            return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
        }

        @Override
        public void setUp() throws Exception {
            super.setUp();
            if (cluster2 == null) {
                cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
            }
        }
    }
}
if (tribeNode == null) {
    tribeNode = buildExternalCluster(System.getProperty("tests.tribe"));
}

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    Settings.Builder builder = Settings.builder();
    builder.put(super.nodeSettings(nodeOrdinal));
    return builder.build();
}

@Override
protected Settings externalClusterClientSettings() {
    Settings.Builder builder = Settings.builder();
    builder.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    builder.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    builder.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    builder.put(XPackSettings.GRAPH_ENABLED.getKey(), false);
    builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false);
    return builder.build();
}

private ExternalTestCluster buildExternalCluster(String clusterAddresses) throws IOException {
    String[] stringAddresses = clusterAddresses.split(",");
    TransportAddress[] transportAddresses = new TransportAddress[stringAddresses.length];
    int i = 0;
    for (String stringAddress : stringAddresses) {
        URL url = new URL("http://" + stringAddress);
    }
InetAddress inetAddress = InetAddress.getByName(url.getHost());
transportAddresses[i++] = new TransportAddress(new InetSocketAddress(inetAddress, url.getPort()));
}
return new ExternalTestCluster(createTempDir(), externalClusterClientSettings(), transportClientPlugins(),
transportAddresses);
}

public void testLicensePropagateToTribeNode() throws Exception {
assumeTrue("License is only valid when tested against snapshot/test keys", Build.CURRENT.isSnapshot());
// test that auto-generated basic license propagates to tribe
assertBusy(() -> {
GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
assertNotNull(getLicenseResponse.license());
assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
});

// test that signed license with higher operation mode takes precedence
LicensingClient cluster2Client = new LicensingClient(cluster2.client());
PutLicenseResponse licenseResponse = cluster2Client
 .preparePutLicense(License.fromSource(new BytesArray(PLATINUM_LICENSE.getBytes(StandardCharsets.UTF_8)), XContentType.JSON))
 .setAcknowledge(true).get();
assertThat(licenseResponse.isAcknowledged(), equalTo(true));
assertThat(licenseResponse.status(), equalTo(LicensesStatus.VALID));
assertBusy(() -> {
GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
assertNotNull(getLicenseResponse.license());
assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.PLATINUM));
});

// test removing signed license falls back works
assertTrue(cluster2Client.prepareDeleteLicense().get().isAcknowledged());
assertBusy(() -> {
GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
assertNotNull(getLicenseResponse.license());
assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
});

public void testDummy() throws Exception {
// this test is here so that testLicensePropagateToTribeNode's assumption
// doesn't result in this test suite to have no tests run and trigger a build failure
}

private static final String PLATINUM_LICENSE = "{"license":{\"uid\":\"1\",\"type\":\"platinum\"," +
"issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null}

```java
package org.elasticsearch.license;
import org.elasticsearch.client.Client;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
public class LicenseTribeTests extends TribeTransportTestCase {
    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertLicenseTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertLicenseTransportActionsWorks(masterClient);
    }
}
```

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@Override
protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
    assertLicenseTransportActionsWorks(dataNodeClient);
}

private static void assertLicenseTransportActionsWorks(Client client) throws Exception {
    client.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
    client.execute(PutLicenseAction.INSTANCE, new PutLicenseRequest()
        .license(generateSignedLicense(TimeValue.timeValueHours(1))));
    client.execute(DeleteLicenseAction.INSTANCE, new DeleteLicenseRequest());
}

@Override
protected void verifyActionOnTribeNode(Client tribeClient) throws Exception {
    // The get licence action should work, but everything else should fail
    tribeClient.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
    failAction(tribeClient, PutLicenseAction.INSTANCE);
    failAction(tribeClient, DeleteLicenseAction.INSTANCE);
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Requests;
import org.elasticsearch.cluster.health.ClusterHealthStatus;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.Priority;
import org.elasticsearch.common.UUIDs;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.discovery.zen.SettingsBasedHostsProvider;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.ESIntegTestCase.Scope;
import org.elasticsearch.test.InternalTestCluster;
import org.elasticsearch.test.NodeConfigurationSource;
import org.elasticsearch.test.TestCluster;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.CompositeTestingXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.core.ml.MachineLearningField;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.upgrade.Upgrade;
import org.elasticsearch.xpack.watcher.Watcher;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.function.Function;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

    protected List<String> enabledFeatures() {
        return Collections.emptyList();
    }

    @Override
    protected final Settings nodeSettings(int nodeOrdinal) {
        final Settings.Builder builder = Settings.builder()
                .put(NetworkModule.HTTP_ENABLED.getKey(), false)
                .put("transport.type", getTestTransportType());
        List<String> enabledFeatures = enabledFeatures();
        }
public class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }

    public static class MockTribePlugin extends TribePlugin {

        public MockTribePlugin(Settings settings) {
            super(settings);
        }

        protected Function<Settings, Node> nodeBuilder(Path configPath) {
            return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
        }
    }
}

@Overrde
protected boolean ignoreExternalCluster() {
    return true;
}

@Overrde
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }

    public static class MockTribePlugin extends TribePlugin {

        public MockTribePlugin(Settings settings) {
            super(settings);
        }

        protected Function<Settings, Node> nodeBuilder(Path configPath) {
            return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
        }
    }
}
@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(CompositeTestingXPackPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

@Override
protected final Collection<Class<? extends Plugin>> transportClientPlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(XPackClientPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

class NodeConfigurationSource extends AbstractNodeDependentSource {
    @Override
    public Settings nodeSettings(int nodeOrdinal) {
        return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
    }

    @Override
    public Path nodeConfigPath(int nodeOrdinal) {
        return null;
    }

    @Override
    public Collection<Class<? extends Plugin>> nodePlugins() {
        return TribeTransportTestCase.this.nodePlugins();
    }

    @Override
    public Settings transportClientSettings() {
        return TribeTransportTestCase.this.transportClientSettings();
    }

    @Override
    public Collection<Class<? extends Plugin>> transportClientPlugins() {
        return TribeTransportTestCase.this.transportClientPlugins();
    }
}
final InternalTestCluster cluster2 = new InternalTestCluster(
    randomLong(), createTempDir(), true, true, 2, 2,
    UUIDs.randomBase64UUID(random()), nodeConfigurationSource, 1, false, "tribe_node2",
    getMockPlugins(), getClientWrapper());

cluster2.beforeTest(random(), 0.0);

logger.info("create 2 indices, test1 on t1, and test2 on t2");
assertAcked(internalCluster().client().admin().indices().prepareCreate("test1").get());
assertAcked(cluster2.client().admin().indices().prepareCreate("test2").get());
ensureYellow(internalCluster());
ensureYellow(cluster2);

Map<String, String> asMap = internalCluster().getDefaultSettings().getAsMap();
Settings.Builder tribe1Defaults = Settings.builder();
Settings.Builder tribe2Defaults = Settings.builder();
internalCluster().getDefaultSettings().keySet().forEach(k -> {
    if (k.startsWith("path.")) == false {
        tribe1Defaults.copy(k, internalCluster().getDefaultSettings());
        tribe2Defaults.copy(k, internalCluster().getDefaultSettings());
    }
});
tribe1Defaults.normalizePrefix("tribe.t1.");
tribe2Defaults.normalizePrefix("tribe.t2.");
// give each tribe it's unicast hosts to connect to
tribe1Defaults.putList("tribe.t1." +
    SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(internalCluster().client()));
tribe1Defaults.putList("tribe.t2." +
    SettingsBasedHostsProvider.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(cluster2.client()));

Settings merged = Settings.builder()
    .put("tribe.t1.cluster.name", internalCluster().getClusterName())
    .put("tribe.t2.cluster.name", cluster2.getClusterName())
    .put("tribe.t1.transport.tcp.port", 0)
    .put("tribe.t2.transport.tcp.port", 0)
    .put("tribe.t1.transport.type", getTestTransportType())
    .put("tribe.t2.transport.type", getTestTransportType())
    .put("tribe.blocks.write", false)
    .put(tribe1Defaults.build())
    .put(tribe2Defaults.build())
    .put(NetworkModule.HTTP_ENABLED.getKey(), false)
    .put(internalCluster().getDefaultSettings())
    .put(XPackSettings.SECURITY_ENABLED.getKey(), false) // otherwise it conflicts with mock transport
    .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("tribe.t1." + XPackSettings.SECURITY_ENABLED.getKey(), false)
.put("tribe.t2." + XPackSettings.SECURITY_ENABLED.getKey(), false)
               .put("tribe.t1." + XPackSettings.WATCHER_ENABLED.getKey(), false)
               .put("tribe.t2." + XPackSettings.WATCHER_ENABLED.getKey(), false)
               .put("tribe.t1." + XPackSettings.MACHINE_LEARNING_ENABLED.get(), false)
               .put("tribe.t2." + XPackSettings.MACHINE_LEARNING_ENABLED.get(), false)
               .put("tribe.t1." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
               .put("tribe.t2." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
               .put("node.name", "tribe_node") // make sure we can identify threads from this node
               .put("transport.type", getTestTransportType())
               .build();

    final List<Class<? extends Plugin>> mockPlugins = Arrays.asList(MockTribePlugin.class,
                        TribeAwareTestZenDiscoveryPlugin.class,
                        getTestTransportPlugin(), Deprecation.class, Graph.class, Logstash.class, MachineLearning.class,
                        Monitoring.class,
                        Security.class, Upgrade.class, Watcher.class, XPackPlugin.class);
    final Node tribeNode = new MockNode(merged, mockPlugins).start();
    Client tribeClient = tribeNode.client();

    logger.info("wait till tribe has the same nodes as the 2 clusters");
    assertBusy(() -> {
        DiscoveryNodes tribeNodes = tribeNode.client().admin().cluster().prepareState().get().getNodes();
        assertThat(countDataNodesForTribe("t1", tribeNodes),
                   equalTo(internalCluster().client().admin().cluster().prepareState().get().getNodes()
                         .getNodes().getDataNodes().size()));
        assertThat(countDataNodesForTribe("t2", tribeNodes),
                   equalTo(cluster2.client().admin().cluster().prepareState().get().getNodes()
                         .getNodes().getDataNodes().size()));
    });
    logger.info(" --> verify transport actions for tribe node");
    verifyActionOnTribeNode(tribeClient);
    logger.info(" --> verify transport actions for data node");
    verifyActionOnDataNode((randomBoolean() ? internalCluster() : cluster2).dataNodeClient());
    logger.info(" --> verify transport actions for master node");
    verifyActionOnMasterNode((randomBoolean() ? internalCluster() : cluster2).masterClient());
    logger.info(" --> verify transport actions for client node");
    verifyActionOnClientNode((randomBoolean() ? internalCluster() : cluster2).coordOnlyNodeClient());
    try {
        cluster2.wipe(Collections.<String>emptySet());
    } finally {
        cluster2.afterTest();
    }
    tribeNode.close();
    cluster2.close();
}

/**
 * Verify transport action behaviour on client node

---

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protected abstract void verifyActionOnClientNode(Client client) throws Exception;

/**
 * Verify transport action behaviour on master node
 */
protected abstract void verifyActionOnMasterNode(Client masterClient) throws Exception;

/**
 * Verify transport action behaviour on data node
 */
protected abstract void verifyActionOnDataNode(Client dataNodeClient) throws Exception;

/**
 * Verify transport action behaviour on tribe node
 */
protected abstract void verifyActionOnTribeNode(Client tribeClient) throws Exception;

protected void failAction(Client client, Action action) {
    try {
        client.execute(action, action.newRequestBuilder(client).request());
        fail("expected "+ action.name() + " to fail");
    } catch (IllegalStateException e) {
        assertThat(e.getMessage(), containsString("failed to find action"));
    }
}

private void ensureYellow(TestCluster testCluster) {
    ClusterHealthResponse actionGet = testCluster.client().admin().cluster()
        .health(Requests.clusterHealthRequest().waitForYellowStatus()
            .waitForEvents(Priority.LANGUID).waitForNoRelocatingShards(true)).actionGet();
    if (actionGet.isTimedOut()) {
        logger.info("ensureGreen timed out, cluster state:
            
            {}
            
            
            {}
            
            
            “, testCluster.client().admin().cluster()
                .prepareState().get().getState(),
            testCluster.client().admin().cluster().preparePendingClusterTasks().get());
        assertThat("timed out waiting for yellow state", actionGet.isTimedOut(), equalTo(false));
    }
    assertThat(actionGet.getStatus(), anyOf(equalTo(ClusterHealthStatus.YELLOW),
        equalTo(ClusterHealthStatus.GREEN)));
}

private int countDataNodesForTribe(String tribeName, DiscoveryNodes nodes) {
    int count = 0;
    for (DiscoveryNode node : nodes) {
        if (!node.isDataNode()) {
            continue;
        }
        if (tribeName.equals(node.getAttributes().get("tribe.name"))) {
            count++;
        }
    }
    return count;
}
import org.elasticsearch.gradle.test.ClusterConfiguration
import org.elasticsearch.gradle.test.ClusterFormationTasks
import org.elasticsearch.gradle.test.NodeInfo

apply plugin: 'elasticsearch.standalone-test'
apply plugin: 'elasticsearch.standalone-rest-test'
apply plugin: 'elasticsearch.rest-test'

dependencies {
    testCompile project(path: ':modules:tribe', configuration: 'runtime')
    testCompile project(path: xpackProject('plugin').path, configuration: 'testArtifacts')

    // TODO: remove all these test deps, this is completely bogus, guava is being force upgraded
    testCompile project(path: xpackModule('deprecation'), configuration: 'runtime')
    testCompile project(path: xpackModule('graph'), configuration: 'runtime')
    testCompile project(path: xpackModule('logstash'), configuration: 'runtime')
    testCompile project(path: xpackModule('ml'), configuration: 'runtime')
    testCompile project(path: xpackModule('monitoring'), configuration: 'runtime')
    testCompile project(path: xpackModule('security'), configuration: 'runtime')
    testCompile project(path: xpackModule('upgrade'), configuration: 'runtime')
    testCompile project(path: xpackModule('watcher'), configuration: 'runtime')
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('monitoring'), configuration: 'testArtifacts')
}

cOMPileTestjava.options.compilerArgs << "-Xlint:-rawtypes,-unchecked"
namingConventions.skipIntegTestInDisguise = true

test {
    /*
     * We have to disable setting the number of available processors as tests in the same JVM randomize processors and
will step on each
* other if we allow them to set the number of available processors as it’s set-once in Netty.
*/

systemProperty 'es.set.netty.runtime.available.processors', 'false'
include '**/*Tests.class'
}

String licensePath = xpackProject('license-tools').projectDir.toPath().resolve('src/test/resources').toString()
sourceSets {
test {
    resources {
        srcDirs += [licensePath]
    }
}
}

project.forbiddenPatterns {
    exclude '**/*.key'
}

task setupClusterOne {}
ClusterConfiguration cluster1Config = new ClusterConfiguration(project)
cluster1Config.clusterName = 'cluster1'
cluster1Config.setting('node.name', 'cluster1-node1')
// x-pack
cluster1Config.setting('xpack.monitoring.enabled', false)
cluster1Config.setting('xpack.security.enabled', false)
cluster1Config.setting('xpack.watcher.enabled', false)
cluster1Config.setting('xpack.graph.enabled', false)
cluster1Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster1Nodes = ClusterFormationTasks.setup(project, 'clusterOne', setupClusterOne,
cluster1Config)


task setupClusterTwo {}  
ClusterConfiguration cluster2Config = new ClusterConfiguration(project)
cluster2Config.clusterName = 'cluster2'
cluster2Config.setting('node.name', 'cluster2-node1')
// x-pack
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.security.enabled', false)
cluster2Config.setting('xpack.watcher.enabled', false)
cluster2Config.setting('xpack.graph.enabled', false)
cluster2Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster2Nodes = ClusterFormationTasks.setup(project, 'clusterTwo', setupClusterTwo,
cluster2Config)
integTestCluster {
  dependsOn setupClusterOne, setupClusterTwo
  setting 'node.name', 'tribe-node'
  setting 'tribe.on_conflict', 'prefer_cluster1'
  setting 'tribe.cluster1.cluster.name', 'cluster1'
  setting 'tribe.cluster1.discovery.zen.ping.unicast.hosts', "'$\{\text{-}\rightarrow\text{clusterNodes.get(0).transportUri()}\}'"
  setting 'tribe.cluster1.http.enabled', 'true'
  setting 'tribe.cluster1.http.port', '0'
  setting 'tribe.cluster1.transport.tcp.port', '0'
  setting 'tribe.cluster1.xpack.monitoring.enabled', false
  setting 'tribe.cluster1.xpack.monitoring.enabled', false
  setting 'tribe.cluster1.xpack.security.enabled', false
  setting 'tribe.cluster1.xpack.watcher.enabled', false
  setting 'tribe.cluster1.xpack.graph.enabled', false
  setting 'tribe.cluster1.xpack.ml.enabled', false
  setting 'tribe.cluster1.xpack.license.self_generated.type', 'trial'
  setting 'tribe.cluster2.cluster.name', 'cluster2'
  setting 'tribe.cluster2.discovery.zen.ping.unicast.hosts', "'$\{\text{-}\rightarrow\text{clusterNodes.get(0).transportUri()}\}'"
  setting 'tribe.cluster2.http.enabled', 'true'
  setting 'tribe.cluster2.http.port', '0'
  setting 'tribe.cluster2.transport.tcp.port', '0'
  setting 'tribe.cluster2.xpack.monitoring.enabled', false
  setting 'tribe.cluster2.xpack.monitoring.enabled', false
  setting 'tribe.cluster2.xpack.security.enabled', false
  setting 'tribe.cluster2.xpack.watcher.enabled', false
  setting 'tribe.cluster2.xpack.graph.enabled', false
  setting 'tribe.cluster2.xpack.ml.enabled', false
  setting 'tribe.cluster2.xpack.license.self_generated.type', 'trial'
  // x-pack
  setting 'xpack.monitoring.enabled', false
  setting 'xpack.monitoring.enabled', false
  setting 'xpack.security.enabled', false
  setting 'xpack.watcher.enabled', false
  setting 'xpack.graph.enabled', false
  setting 'xpack.ml.enabled', false
  setting 'xpack.license.self_generated.type', 'trial'
  waitCondition = { node, ant ->
    File tmpFile = new File(node.cwd, 'wait.success')
    // 5 nodes: tribe + clusterOne (1 node + tribe internal node) + clusterTwo (1 node + tribe internal node)
      dest: tmpFile.toString(),
      ignoreerrors: true,
      retries: 10)
    return tmpFile.exists()
  }
}
integTestRunner {

/*
 * We have to disable setting the number of available processors as tests in the same JVM randomize processors and will step on each
 * other if we allow them to set the number of available processors as it's set-once in Netty.
 */

systemProperty 'es.set.netty.runtime.available.processors', 'false'
systemProperty 'tests.cluster', '${-> cluster1Nodes.get(0).transportUri()}'
systemProperty 'tests.cluster2', '${-> cluster2Nodes.get(0).transportUri()}'
systemProperty 'tests.tribe', '${-> integTest.nodes.get(0).transportUri()}'
finalizedBy 'clusterOne#stop'
finalizedBy 'clusterTwo#stop'
}
---
teardown:
  - do:
xpack.license.post:
    acknowledge: true
    body: |
    
    ["licenses":[{"uid":"3aa62ffe-36e1-4fad-bfdfc-9df83f01eb22","type":"trial","issue_date_in_millis":1523456691721,"max_nodes":5,"issued_to":"customer","issuer":"elasticsearch","signature":":AAAAABAAAAA2kWNcuc+dT0rlmYXZA AAAIAo5/x6hrsGhlGqprJmy4qmgEC7gK0U4zQ6q5ZEMhmhjaAAABAnfG0y2vxBu2TD5hfh56kzOQOD CD0hr0y2id17ZSIJMRq07ZywPCWNS1aR33Gh1HkTER0ysML0xMH/gXavxyRvMbndj9UBKzuwpTawSlnx YtcqN8nSBvIC7Ki+uILspAILC2ZP9nknRlwqXqBIfwYn7xnZguDK0OWru/spTPObo7jcePI8VTK6nWFen7/h CFDQTUFZ0Qvd+1q71PAcGHGisGfdBMvAMXCxGWrHf3clo9/vadgo+isNyhsPq9nmN7gwsvBAkA1Frp H2EXYYbIfOSpBvUmhYMgErLg1k3/CbS0pCWLKOA1xTMayosdZOjagU3auZXY=","start_date_in_millis":-1}]}

"Installing and getting license works":

## current license version
  - do:
xpack.license.post:
    acknowledge: true
    body: |
    
    ["licenses":[{"uid":"894371dc-9t49-4997-93cb-802e37fa6a8","type":"trial","issue_date_in_millis":1411948800000,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":":AAAAAgAAAA0FWh0T9njItjQ2qammAAABMc 9ZN0hjZDBGYnVyRXpCOW5Bb3frjZDAxOWpSBtVMOVZwUzRxV1PSmkxakxZdWS1MIhITHNoIN1N2XMv vRFk4d3JTZE3R3RRZ0pzU3loWJKZnQvSEFa0p0pTHBkWkpzZWZSQ9iNmRNQnw1sIlpLN01DalZCS095M XRGN1llIzlpYeVvVTnFracTE2dhZjZrdFQrN3JqceGwb0U0MXZ0dJHSEriZTVLONHzSDByWnpoZepbZH BEZjUrtvBxRENSXsXWljZlloODdzVmEzUjNiWktNWGM5TUuQV2pilaUo4Q1om4XNlu1p0SEhqa VB2azhmUk9QVzFeTFoMlQ0QnRXG53MwWk2K055c28szSmRnVkJh2JSQkFLV2VXUMvhHNZ2R3o2VE1q bVnQ52loOHNN5bUerZINWWKzSvmZIWEtuSU9wTTJENDVvT1NCYkilacUYyK2FwRW9xa06ddMbmMzGQiQ c3FWO7tQzgZZUcXmQykt2RUzqMFnzIvL2d2bDRWu2h6UG5pdENGWFReXNKKnkE99PAQQwezzvcoA0 trxxhU1QbaTsKTnau9CKVQ6qpv8yI1pnsBpZXCl8k1ISrgoFn1bXq61lJw/fsw5qmmYNiH3RhTO9EyaCBqaLk8 NXZQ6TrKQPsemBwAYUkZXsInBo04kB4mzwCt8aMAekrTiEBtBbog+57cSaU9y37Gkd+1jXCPwxP+jO
- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

## a license object has 11 attributes
- length: { license: 11 }

## license version: 1.x
- do:
  xpack.license.post:
    acknowledge: true
    body: |
    ["licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7faa48","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"","issuerto":"","signature":AAAAAwAAAA2T3vqdBBetKQaBgxipAAABmC9Z0nhjZDBGYnVyRXpCOW5Bb3fjZDAxOWp6TVoMVZwUrzVk1PSmkxaxZdW5IMhltTHN0N1N2MXMvRk4d3fTZeX3R3RZo2pzU3iolbWKJZnQvSEFva0ppTHBkWkprZWZSQ09iRmRQkw15pLNI0dZCS095MXRGN1IzIhpYcVVTmFrcTE2dzhJZmZrdFQrN3JQcGwxb0U0MXZ0dlDJHSERizTVLOHNzSDByWnpoZEpH
ZHBEZUrjTVBxBRENNXxSWWjJZulOdzVmEzUjNiWktNWGM5TUhvQ2plau0U04QlOUm4MXNuL0pSOEhQaVB2azhmUk9QOvzFeFToMi0Q0RnJXS5Mw2K055c28eSmRnVFI2JSQkFLV2VXUmVHDNDZ2R3o2VE1qhVNQ52hxONH5bUzZNiW VKSwmzIWEtaSU9wvTTJENDvtT1N CYklacUyyK2FwRWRW9x0t6dldMbmMzS
GtQcSFWOTgzZ3UcXMvQkrt2RUZwMFJnZzvL2d2DRWUzhu6U5podENGWFTrreXNKNKne9PQAAAAQB7pG
FYgawfLm9zT80LVclHJl1t/v2uSzCQWKdXXhrwSy4WrAh2uK+/PeiQ7aEjW5erLsVJ5KLA6OEZJDaP7r+mj
OPuLt0+6154Mn7ybMzOPHXWb6cLTE3+pp0GZPyOmsbDkZSRUegTciR2R6z+mdnGrhOYM80y08KVW
whdU/DHw41MK7ePo6uq73Nz4y9IDgt9fxA0t4ggEBPbnTDDBVQ25AjuY8sa0M5eg9r9DRayw1KamY Wrara8
PIGX+2YjhtUeQhmlCPdxc9wECJ7/knPss5b3Z0xQXR3fyXhjcXNNhEIsbldQrMcAl3pLxs7II+KPYMa2ZYL/am4
P"]]
MVZwUrzVkB1PsmkaxkzZdW5I0MlIHTbNoN1N2MXmVrFk4d3J7TEzEx3R3RRZ0pzU3lobWJKZnQvSEFvaa0ppTHBkWkprZWSZQ9iNnRbQNKw15lepN0IlDaZCS0955XRGN11lZlpYcVVTnFrcTE2zhlZmZrdFqN3JqGeGwxb0U0MXZ0dIJDHEIzrTVLOHNz5DByWnp0ZEphZHBEZjUrTVBxRENNSXNsWWJlZlODvZmEzuUJNiwKtWmWG5TUhQV2plaU0qQ1JOuIl4MXNuU0pSEObQaVB2azhmU9k9VzhePFRmMlJ0RmmXJSG53Mwk2K055c28z5mRnVkFi1Z5QkFLV2XUmVHNDDZ2R3o2E1qgVNSQ2tx0HN5bEndZINiWkZSvmZlWEtuSU9wTTJENDvV1INCYklacUYyK2FwRV9xa066ldMbmMzSGtcSc3FwOTgzZ3ZUcXMvQkt2RUZwMFJnnZlvL2d2bDRWUzh6UG5pdENGWFrerXNKNnkE9PQAAAAQA4qscc/URRZVdFol.wgy9dqybYEQLW8LkyiAypVXHHhdtk+iZlIeNuEDbUXhSX2vaVJsfNR84/kqplDfnoN02D2TM8lgtIlfisZYGDTGTY+yW/5eAeEUSJ5t11BBN27bwkqL+L4Yaa07cmn7NKWkJcSWKAIHjU3V8chPkgICHE0kQqVwpC9RE82pTw06sr+UfRlPGNffqPM0iUe5nucfVrtj89QjO/KA7ZyFb07VTNnxZQ7T7rzWBCP9IkJpztXewoku08Q5S+rSoJ NYboFo3HGKtrCVRz/55rcE0Nd wKXXu1lwnSeir4f1IKLduQTfFLy0+1th87VS8T88UT{}]

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }  

## multiple licenses version: 1.x

- do:
  xpack.license.post:  
    acknowledge: true
    body: |
    {"licenses":[{"uid":"893361dc-9749-4997-93cb-802ec37df4a8","type":"internal","subscription_type":null,"issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1440892799999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null}]}
Uzh6UG5pdENGWFRreXNKNkE9PQAAAACPC94du0pDZR3Uuy0i0ce3aQI+nvVqce+U8u79Dga5n1lqjHd7H
vIBJEnkF+unVPlp/PXV/x7BZSw+Y1PVERit+6rYix1yuHegqwxmxv/VdR1CjCaZM6k0Ob4dZCPv6Ebn2Mnk89KH
C/PwiLPq6Qfwv/Pkpa8k2A3ORJmvYSDvXhe6lCsfqdqc4ebrsFyqZywWh5CZSpzqZBFXIngDv2N0hHbGlueR
szD0f3J5dfeL5Za1D0oegO90JVe5hlyRqeiL5QRUNdXPVI+S+EAG0D1cNdJsMypCYPnVjw6iq2Y9h3cuztzsX
VBY7ij4WnoP3ce7Zjs9TWh+H+IqzfC6"

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }

---
"Should throw 404 after license deletion":
- do:
  xpack.license.delete: {}
  match: { acknowledged: true }
- do:
  xpack.license.get: {}
  catch: missing

---
"Should install a feature type license":

# VERSION_NO_FEATURE_TYPE license version
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      "license": { "uid": "893361dc-9749-4997-93cb-802e3dofh7aa", "type": "gold", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issued_to", "issuer": "issuer", "signature": "AAAAGAAA3U8+Ymmnvwc+CWSv/maRAXBmC9ZfN6hjZDGBYGnVvRxpCOWf5B3FjZDAXOWpSToMVzU2dVvV5IMIhITHNoN1N2XMVeMfRx4d3TZEz3R3RRZ0puzU3lobWJKzQvSEFva0qqTBHbkWkprZWSZQ91NnRiQm6k15spLNo1DalzCS095MXRGN1IIzIpYcVVTnFrcTE2dzhZmZrdFQrN3JQeGwxb0UOMXZ0dJHSErOEZTVLOHHzSDByWnpqOUNRzHBEZjUrTVBxRENN XuSsWJjZJlaOSdzVMeUjNtWOtNGM5TUhQV2plaUo4Q1JOum4MXXuL0pS0EhQmVB2azhmUk9OVzFeToF1M1Q0RnXSG53MKw2K055c28zSmnRnVf12JQFLV2VJXULOyVMHND2Z2R3o2VE1qbdVNQS2l0OH5bUeZlINWkZSVmZIWEtEU9w/tTJENDvV1NCYklaucUYyK2FwRW9xa066ddlMbbnMrzS6qC3FOWTg2Z3SUcXMVqJk2RUzVmFLJnZdlvL2d2dDrUWoU Zh6UG5pdENGWFRreXNKNkE9PQAAAACPC94du0pDZR3Uuy0i0ce3aQI+nvVqce+U8u79Dga5n1lqjHd7H
vIBJEnkF+unVPlp/PXV/x7BZSw+Y1PVERit+6rYix1yuHegqwxmxv/VdR1CjCaZM6k0Ob4dZCPv6Ebn2Mnk89KH
C/PwiLPq6Qfwv/Pkpa8k2A3ORJmvYSDvXhe6lCsfqdqc4ebrsFyqZywWh5CZSpzqZBFXIngDv2N0hHbGlueR
szD0f3J5dfeL5Za1D0oegO90JVe5hlyRqeiL5QRUNdXPVI+S+EAG0D1cNdJsMypCYPnVjw6iq2Y9h3cuztzsX
VBY7ij4WnoP3ce7Zjs9TWh+H+IqzfC6"}
- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
  ---
  "Cannot start basic":

- do:
  catch: bad_request
  xpack.license.post:
  acknowledge: true
  body: |
  "license":{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"basic","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0lKPZ0a7aZquUltho/AAABmC9ZN0hjZDBGYnVryRXpcOW5Bb3FjZDAxOWpBbTVoMVZwUzRxVkJPSmkxakxZdw5IhlITHNoN1N2MXMvRFk4d3JTZEa3R3RRZ0pzU3loWJZKZnQvSEFva0ppTHBkWkpZWZSi9iNmRQkw1SlpLN0lDaZCS095MXRG111IzpYcVVTThFrcTE2dzhJZmZrdFQrN3JQeGwxboU0MXZ0dDJSERiZTVLOHNzSDBywWnpoEphZHBEZjUrTVBxREtNSXnsWWJjZllaODdzVMeUzUjiNkWtNWGM5UUhQV2plaUo4Q1JOUm4MXNuO0SEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSg53MWh2K055c28zSmRvFhb2JSQkFLV2YXUmVHN7Z2R3o2VE1qv bVNOsZ2xOHN5bUErZINWkZSVmZIWEtaSU9wTTJENyVvT1NCYklacUYyK2FW9xa06dldMbmMzSGiQc3FWOTgzZ5UcXMvQkt2RUZwFMJzZ1vL2d2hBRWUzh6U5pdENGWFRreXNKXkE9PQAAEQAAEALu4Q4 S3lG6SzoqZs5V16Z4CIXORDrrYQ+wdLCeey0XdxjTslAOj+k+gNgo6uac7Uswi01esHu4lbJgpvKy7RRChh5b/z2 ubu2qM1qopppBQyQ7DQVYfYqGm6seUMJwJi5Avvm9r41YPSPeri3bKK2e1l6jK6N8ibCvNTyY/XkYGCJrBWT SJePDh66eryodZ37x1StLbPWcNAkmweyHjDInvYnbeZZ07A3NmbXZjr77Tf8/YwQyE00PqMcl7fYPY3hK KpAeHf8aaJbqkKYbqZuER3EWXJ7ZwLVb1dNdNg8aXmR7YrkQcYwWgptYQpfV+D7yEJ4j5muAEoler" }

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_xpack/license/start_basic API to install a basic license that does not expire.' }
  ---
  "Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  xpack.license.post:
  acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }
- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  catch: forbidden
  xpack.license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }

- match: { error_message: "Operation failed: Trial was already activated." }

---
"Trial license cannot be basic":
- do:
  catch: bad_request
  xpack.license.post_start_trial:
    type: "basic"
    acknowledge: true

---
"Can start basic license if do not already have basic":
- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- match: { acknowledged: true }

- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
  xpack.license.post_start_basic: { }
- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

---

"Must acknowledge to start basic":
- do:
  xpack.license.post_start_basic: {}
"xpack.license.delete": {
"methods": ["DELETE"],
"url": {
"path": "/_xpack/license",
"paths": ["/_xpack/license"],
"parts": {}
},
"body": null
}

"xpack.license.get.basic_status": {
"methods": ["GET"],
"url": {
"path": "/_xpack/license/basic_status",
"paths": ["/_xpack/license/basic_status"],
"parts": {}
},
"body": null
}

"xpack.license.post": {
"methods": ["PUT", "POST"],
"url": {
"path": "/_xpack/license",
"paths": ["/_xpack/license"],
"parts": {}
},
"params": {
"acknowledge": { 
"type" : "boolean",
"description" : "whether the user has acknowledged acknowledge messages (default: false)"
}
},
"body": null
}
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Version 2.0, January 2004

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```json
{
    "metadata": {
        "name": "X-Pack Monitoring: License Expiration",
        "xpack": {
            "link": "license",
            "expires_days": [60, 30, 14, 7],
            "severity": 0,
            "alert_index": ".monitoring-alerts-6",
            "cluster_uuid": ".{monitoring.watch.cluster_uuid}"
        },
        "type": "monitoring",
        "version_created": 6040099,
        "watch": ".{monitoring.watch.id}"
    },
    "trigger": {
        "schedule": {
            "interval": "1m"
        }
    },
    "input": {
        "chain": {
            "inputs": [
                {
                    "check": {
                        "search": {
                        }
                    }
                }
            ]
        }
    }
}
```
"request": {  
"indices": [  
".monitoring-es-*"  
],  
"body": {  
"size": 1,  
"sort": [  
{  
"timestamp": {  
"order": "desc"  
}  
}  
],  
"_source": [  
"license.*"  
],  
"query": {  
"bool": {  
"filter": [  
{  
"term": {  
"cluster_uuid": "[ctx.metadata.xpack.cluster_uuid]"  
}  
},  
{  
"term": {  
"type": "cluster_stats"  
}  
},  
{  
"range": {  
"timestamp": {  
"gte": "now-2m"  
}  
}  
}  
]  
}  
},  
"alert": {  
"search": {  
"request": {
"indices": [ 
  ".monitoring-alerts-6"
],
"body": { 
  "size": 1, 
  "terminate_after": 1, 
  "query": { 
    "bool": { 
      "filter": { 
        "term": { 
          "_id": "\{ctx.watch_id\}" 
        } 
      } 
    } 
  }, 
  "sort": [ 
    { "timestamp": { "order": "desc" } } 
  ] 
},
"kibana_settings": { 
  "search": { 
    "request": { 
      "indices": [ 
        ".monitoring-kibana-6-*"
      ], 
      "body": { 
        "size": 1, 
        "query": { 
          "bool": { 
            "filter": { 
              "term": { 
                "type": "kibana_settings" 
              } 
            } 
          }, 
          "sort": [ 
            { "timestamp": { "order": "desc" } } 
          ] 
        } 
      }
    }
  }
}
"condition": {
  "script": {
    "source": "if (ctx.payload.check.hits.total == 0) {return false;}def license = ctx.payload.check.hits.hits[0]._source.license;if (license == null) {return false;}Instant expiry = Instant.ofEpochMillis(license.expiry_date_in_millis);ctx vars.expiry = expiry;if (license.status != 'active') {
  ctx vars.expired = true;ctx vars.fails_check = true;ctx metadata.xpack.severity = 2001;} else {Instant now = Instant.ofEpochMillis(new Date().getTime());ctx vars.now = now;for (int i = ctx metadata.xpack.expires_days.length - 1;i > -1;--i) {
    if (license.type == 'trial' && i < 2) {break;}Instant fromNow = now.plusSeconds(ctx metadata.xpack.expires_days[i] * 24 * 60 * 60);if (fromNow.isAfter(expiry)) {
      ctx vars.fails_check = true;ctx metadata.xpack.severity = i * 1000;break;}}}
    ctx vars.not_resolved = (ctx payload.alert.hits.total == 1 && ctx payload.alert.hits.hits[0]._source.resolved_timestamp == null);ctx vars.update = ctx vars.fails_check || ctx vars.not_resolved;"}
  },
  "transform": {
    "script": {
      "source": "ctx vars.email_recipient = (ctx payload.kibana_settings.hits.total > 0 && ctx payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack != null) ? ctx payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack.default_admin_email : null;ctx vars.is_new = ctx vars.fails_check && !ctx vars.not_resolved;ctx vars.is_resolved = !ctx vars.fails_check && ctx vars.not_resolved;def alertMessage = null;if (ctx vars.fails_check) {alertMessage = 'Update your license.';}if (ctx vars.not_resolved) {ctx vars.update_timestamp = ctx vars.fails_check || ctx vars.not_resolved;"}
    },
    "actions": {
      "add_to_alerts_index": {
        "index": {
          "index": "monitoring-alerts-6",
          "doc_type": "doc",
          "doc_id": "/monitoring.watch.unique_id"
        }
      },
      "send_email_to_admin": {
        "condition": {
          "script": "return ctx vars.email_recipient != null && (ctx vars.is_new || ctx vars.is_resolved)"
        }
      }
    }
  }
}
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.persistent.PersistentTasksCustomMetaData;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.ml.action.CloseJobAction;
import org.elasticsearch.xpack.core.ml.action.DeleteDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.DeleteJobAction;
import org.elasticsearch.xpack.core.ml.action.GetDatafeedsStatsAction;
import org.elasticsearch.xpack.core.ml.action.GetJobsStatsAction;
import org.elasticsearch.xpack.core.ml.action.OpenJobAction;
import org.elasticsearch.xpack.core.ml.action.PutDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.PutJobAction;
import org.elasticsearch.xpack.core.ml.action.StartDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.StopDatafeedAction;
import org.elasticsearch.xpack.core.ml.client.MachineLearningClient;
import org.elasticsearch.xpack.core.ml.datafeed.DatafeedState;
import org.elasticsearch.xpack.core.ml.job.config.JobState;
import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.support.BaseMlIntegTestCase;
import org.junit.Before;
import java.util.Collections;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        enableLicensing();
        ensureStableCluster(1);
        ensureYellow();
    }

    public void testMachineLearningPutJobActionRestricted() throws Exception {
        String jobId = "testmachinelearningputjobactionrestricted";
        // Pick a license that does not allow machine learning
        License.OperationMode mode = randomInvalidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(false);
        // test that license restricted apis do not work
        Settings settings = internalCluster().transportClient().settings();
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
            PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
            listener.actionGet();
            fail("put job action should not be enabled!");
        } catch (ElasticsearchSecurityException e) {
            assertThat(e.status(), is(RestStatus.FORBIDDEN));
            assertThat(e.getMessage(), containsString("non-compliant"));
            assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
        }
    }
}
// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
    PutJobAction.Response response = listener.actionGet();
    assertNotNull(response);
}

public void testMachineLearningOpenJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningopenjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response response = putJobListener.actionGet();
        assertNotNull(response);
    }
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    listener.actionGet();
    fail("open job action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}
// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
});

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    AcknowledgedResponse response = listener.actionGet();
    assertNotNull(response);
}

public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
    String datafeedId = jobId + ":datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))));
listener);
    listener.actionGet();
    fail("put datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), listener);
        PutDatafeedAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautoclosejobwithdatafeed";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}", XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }
    // test datafeed
    PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
}
PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
assertNotNull(putDatafeedResponse);

// open job
PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
AcknowledgedResponse openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);

// start datafeed
PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
listener.actionGet();

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress);
    // open job
    PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    AcknowledgedResponse openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
    listener);
    listener.actionGet();
}
listener);
  listener.actionGet();
}

assertBusy(() -> {
  JobState jobState = getJobStats(jobId).getState();
  assertEquals(JobState.OPENED, jobState);

  DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
  assertEquals(DatafeedState.STARTED, datafeedState);

  ClusterState state = client().admin().cluster().prepareState().get().getState();
  PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
  assertEquals(2, tasks.taskMap().size());
});

if (randomBoolean()) {
  enableLicensing(randomInvalidLicenseType());
} else {
  disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
  JobState jobState = getJobStats(jobId).getState();
  assertEquals(JobState.CLOSED, jobState);

  DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
  assertEquals(DatafeedState.STOPPED, datafeedState);

  ClusterState state = client().admin().cluster().prepareState().get().getState();
  PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
  assertEquals(0, tasks.taskMap().size());
});

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
  String jobId = "testmachinelearningstartdatafeedactionrestricted";
  String datafeedId = jobId + ".datafeed";
  assertMLAllowed(true);
  String datafeedIndex = jobId + ".data";
  prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}",
  XContentType.JSON).get();
  // test that license restricted apis do now work
  Settings settings = internalCluster().transportClient().settings();
  try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
PutJobAction.Response putJobResponse = putJobListener.actionGet();
assertNotNull(putJobResponse);
PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putDatafeed(
    new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
assertNotNull(putDatafeedResponse);
PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
AcknowledgedResponse openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress ());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
        listener);
    listener.actionGet();
    fail("start datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.MACHINE_LEARNING));
    }
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // re-open job now that the license is valid again
    PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    AcknowledgedResponse openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
}

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + ".datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + ".data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":\"{\"properties\":\"time\":\"date\"}}\}", XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
            Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        AcknowledgedResponse openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        PlainActionFuture<AcknowledgedResponse> startDatafeedListener = PlainActionFuture.newFuture();
    }
}
new MachineLearningClient(client).startDatafeed(
    new StartDatafeedAction.Request(datafeedId, 0L), startDatafeedListener);
AcknowledgedResponse startDatafeedResponse = startDatafeedListener.actionGet();
assertNotNull(startDatafeedResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    AcknowledgedResponse startDatafeedResponse = startDatafeedListener.actionGet();
    assertNotNull(startDatafeedResponse);
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<StopDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).stopDatafeed(new StopDatafeedAction.Request(datafeedId), listener);
    if (invalidLicense) {
        // the stop datafeed due to invalid license happens async, so check if the datafeed turns into stopped state:
        assertBusy(() -> {
            GetDatafeedsStatsAction.Response response =
                new MachineLearningClient(client)
                    .getDatafeedsStats(new GetDatafeedsStatsAction.Request(datafeedId)).actionGet();
            assertEquals(DatafeedState.STOPPED, response.getResponse().results().get(0).getDatafeedState());
        });
    } else {
        listener.actionGet();
    }[
}

if (invalidLicense) {
    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
} else {
    listener.actionGet();
}

if (invalidLicense) {
    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
} else {
    listener.actionGet();
}
}

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
    PlainActionFuture<AcknowledgedResponse> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    AcknowledgedResponse openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
    CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    request.setCloseTimeout(TimeValue.timeValueSeconds(20));
    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertBusy(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    } else {
        new MachineLearningClient(client).closeJob(request, listener);
        listener.actionGet();
    }
}

public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    }
}
PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
PutJobAction.Response putJobResponse = putJobListener.actionGet();
assertNotNull(putJobResponse);
}

// Pick a random license
License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
  client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
  PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
  new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
  listener.actionGet();
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
  String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
  String datafeedId = jobId + "-datafeed";
  assertMLAllowed(true);
  // test that license restricted apis do now work
  Settings settings = internalCluster().transportClient().settings();
  try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
    PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
      Collections.singletonList(jobId))), putDatafeedListener);
    PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
    assertNotNull(putDatafeedResponse);
  }

  // Pick a random license
  License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

  try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<AcknowledgedResponse> listener = PlainActionFuture.newFuture();
  }
}
new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId),
listener);
    listener.actionGet();
    }
}

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD,
License.OperationMode.BASIC);
}

private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}

private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        assertEquals(licenseState.isMachineLearningAllowed(), expected);
    }
}

public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

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package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;

import static org.hamcrest.Matchers.containsString;

public class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {
        String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {"grant": ["f1", "f2", "f3", "f4"], "except": ["f3","f4"]}} ]};";
        RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] { "f1", "f2", "f3", "f4" });
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[] { "f3", "f4" });

        q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {"grant": ["f1", "f2", "f3", "f4"], "except": ["f3","f4"]}} ]};";
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] { "f1", "f2", "f3", "f4" });
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[] { "f3", "f4" });

        q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], "field_security": {"grant": ["f1", "f2", "f3", "f4"], "except": ["f3","f4"]}} ]};";
        rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
        assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] { "f1", "f2", "f3", "f4" });
        assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[] { "f3", "f4" });
    }

    public static void main(String[] args) {
        System.out.println("Hello, World!");
    }
}
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[]{"f1", "f2"});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

q = \"{"\"indices\": [{"\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " +
    \"field_security\": {" +
    \"grant\": [{"] +
    \"except\": ["}] +
    "]})\";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{});
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[]{});

final String exceptWithoutGrant = \"{"\"indices\": [{"\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " +
    \"field_security\": {" +
    \"except\": [\"f1\"] +
    "]})\";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new BytesArray(exceptWithoutGrant), false,
    XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. field_security" + " requires grant if except is given");

final String grantNull = \"{"\"indices\": [{"\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " +
    \"field_security\": {" +
    \"grant\": null +
    "]})\";
e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new BytesArray(grantNull), false,
    XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for" + " role [test]. grant must not be null.");

final String exceptNull = \"{"\"indices\": [{"\"names\": \"idx2\", \"privileges\": [\"p3\"]}, " +
    \"field_security\": {" +
    \"grant\": [\"*\"]});
"\"except\": null" +
")]);

e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(exceptNull), false,
XContentType.JSON));

assertThat(e.getDetailedMessage(),
containsString("failed to parse indices privileges for role \[test\]. except must" +
" not be null.");

final String exceptGrantNull = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": " +
"[\"p3\"], \"field_security\": { " +
"\"grant\": null," +
"\"except\": null" +
"\"]}},\"grant\": null," +
"\"except\": null" +
")]);


e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(exceptGrantNull), false,
XContentType.JSON));

assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " +
"for role \[test\]. grant must not be null.");

final String bothFieldsMissing = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": " +
"[\"p3\"], \"field_security\": { " +
"\"]}},\"field_security\": {\n" +
"\"grant\": null," +
"\"except\": null" +
"\"]}], \"f2\"}}");

e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false,
XContentType.JSON));

assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " +
"for role \[test\]. \"field_security\" must not be empty.");

// try with two indices and mix order a little
q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], " +
"\"field_security\": { " +
"\"grant\": []" +
"\"]}}, {\n"names\": \"idx3\",\n" +
"\"field_security\": { \n" +
"\"grant\": [\"*\"], \n" +
"\"except\": [\"f2\"}]," +
"\"privileges\": [\"p3\"]}}");

rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);

assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});

assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

assertArrayEquals(rd.getIndicesPrivileges()[1].getGrantedFields(), new String[] {"*"});

assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[] {"f2"});

// test old syntax for field permissions
public void testBWCFieldPermissions() throws Exception {


String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " + "fields": ["f1", "f2"] } ] }");
RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
new String["f1", "f2"]);
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String failingQuery = q;
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " + "changed for field permissions in role [test]" + ", use ["field_security": {"grant":[...],"except":[]} instead]");

q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " + "fields": [] } ] }");
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
new String[{}]);
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery2 = q;
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery2), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " + "changed for field permissions in role [test]" + ", use ["field_security": {"grant":[...],"except":[]} instead]");

q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " + "fields": null } ] }");
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " + "changed for field permissions in role [test]" + ", use ["field_security": {"grant":[...],"except":[]} instead]");
}

c:::public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
final int numThreads = scaledRandomIntBetween(4, 16);
final FieldPermissions fieldPermissions = new FieldPermissions(
    new FieldPermissionsDefinition(new String[] { "*" }, new String[] { "foo" }));
final CountDownLatch latch = new CountDownLatch(numThreads + 1);
final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>(numThreads);
List<Thread> threads = new ArrayList<>(numThreads);
for (int i = 0; i < numThreads; i++) {
    final int threadNum = i;
    threads.add(new Thread(() -> {
        try {
            latch.await();
        } catch (InterruptedException e) {
            Thread.currentThread().interrupt();
        }
        final int hashCode = fieldPermissions.hashCode();
        hashCodes.set(threadNum, hashCode);
    }));
}
for (Thread thread : threads) {
    thread.start();
}
latch.countDown();
for (Thread thread : threads) {
    thread.join();
}
final int hashCode = fieldPermissions.hashCode();
for (int i = 0; i < numThreads; i++) {
    assertEquals((Integer) hashCode, hashCodes.get(i));
}
}
public void testAllFieldIsAutomaticallyExcludedIfNotExplicitlyGranted() throws Exception {
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "_a*" }, new String[] { }));
    assertTrue(fieldPermissions.grantsAccessTo("_animal"));
    assertFalse(fieldPermissions.grantsAccessTo("_all"));
}
public void testAllFieldIsNotExcludedIfExplicitlyGranted() throws Exception {
    final String[] grant = { "foo", "bar", "baz", "_all" };
    Collections.shuffle(Arrays.asList(grant), random());

    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(grant, new String[] { }));
    assertTrue(fieldPermissions.grantsAccessTo("_all"));
}
assertTrue(fieldPermissions.grantsAccessTo("foo"));
assertTrue(fieldPermissions.grantsAccessTo("bar"));
assertTrue(fieldPermissions.grantsAccessTo("baz"));
assertFalse(fieldPermissions.grantsAccessTo(randomAlphaOfLengthBetween(5, 8)));
}
}

package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
  private Role permission;

  @Before
  public void init() {
    Role.Builder builder = Role.builder("test");
    builder.add(MONITOR, "test_*", "/foo.*/");
    builder.add(READ, "baz_*foo", "/fool.*bar/");
    builder.add(MONITOR, "/bar.*/");
    permission = builder.build();
  }
  
  public void testAllowedIndicesMatcherAction() throws Exception {
    testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
  }

  public void testAllowedIndicesMatcherActionCaching() throws Exception {
    Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
    Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
    assertThat(matcher1, is(matcher2));
  }
}
public void testBuildEmptyRole() {
    Role.Builder permission = Role.builder(new String[] { "some_role" });
    Role role = permission.build();
    assertThat(role, notNullValue());
    assertThat(role.cluster(), notNullValue());
    assertThat(role.indices(), notNullValue());
    assertThat(role.runAs(), notNullValue());
}

public void testRunAs() {
    Role permission = Role.builder("some_role")
            .runAs(new Privilege("name", "user1", "run*"))
            .build();
    assertThat(permission.runAs().check("user1"), is(true));
    assertThat(permission.runAs().check("user"), is(false));
    assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoRequest;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Request;
import org.elasticsearch.client.RequestOptions;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
@TestLogging("org.elasticsearch.cluster.service:TRACE,org.elasticsearch.discovery.zen:TRACE,org.elasticsearch.
action.search:TRACE," +
"org.elasticsearch.search:TRACE")
public class LicensingTests extends SecurityIntegTestCase {
    public static final String ROLES =
            SecuritySettingsSource.TEST_ROLE + Joiner.on("\n" +
                    "cluster: [ all ]\n" +
                    "  names: " +
                    "  privileges: [manage]\n" +
                    "  names: '/.*/\n" +
                    "  privileges: [write]\n" +
                    "  names: 'test'\n" +
                    "  privileges: [read]\n" +
                    "  names: 'test1'\n" +
                    "  privileges: [read]\n" +
                    "\n" +
                    "role_a:\n" +
                    "  indices:\n" +
                    "  - names: 'a'\n" +
                    "  privileges: [all]\n" +
                    "\n" +
                    "role_b:\n" +
                    "  indices:\n" +
                    "  - names: 'b'\n" +
                    "  privileges: [all];

    public static final String USERS_ROLES =
            SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
                    "role_a:user_a,user_b\n" +
                    "role_b:user_b\n";

    @Override
    protected String configRoles() {
        return ROLES;
    }

    @Override
    protected String configUsers() {
        return SecuritySettingsSource.CONFIG_STANDARD_USER +
                "user_a:{plain}passwd" +
                "user_b:{plain}passwd";
    }

    @Override
    protected String configUsersRoles() {
        return USERS_ROLES;
    }
@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
        .put(NetworkModule.HTTP_ENABLED.getKey(), true)
        .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
        .build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(Netty4Plugin.class); // for http
    return plugins;
}

@Override
protected int maxNumberOfNodes() {
    return super.maxNumberOfNodes() + 1;
}

@Before
public void resetLicensing() {
    enableLicensing();
}

@After
public void cleanupSecurityIndex() {
    deleteSecurityIndex();
}

public void testEnableDisableBehaviour() throws Exception {
    IndexResponse indexResponse = index("test", "type", jsonBuilder()
        .startObject()
        .field("name", "value")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());
    indexResponse = index("test1", "type", jsonBuilder()
        .startObject()
        .field("name", "value1")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());
    refresh();
    // wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
licensing)
assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable().shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

Client client = internalCluster().transportClient();
disableLicensing();
assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());

enableLicensing(randomFrom(License.OperationMode.values()));

IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
assertNoFailures(indicesStatsResponse);

ClusterStatsResponse clusterStatsResponse = client.admin().cluster().prepareClusterStats().get();
assertThat(clusterStatsResponse, notNullValue());
ClusterStatsIndices indices = clusterStatsResponse.getIndicesStats();
assertThat(indices, notNullValue());
assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
assertThat(clusterIndexHealth, notNullValue());

NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

public void testRestAuthenticationByLicenseType() throws Exception {
    Response unauthorizedRootResponse = getRestClient().performRequest(new Request("GET", "/"));
    // the default of the licensing tests is basic
    assertThat(unauthorizedRootResponse.getStatusLine().getStatusCode(), is(200));
    ResponseException e = expectThrows(ResponseException.class,
        () -> getRestClient().performRequest(new Request("GET", "/_xpack/security/_authenticate")));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));
    // generate a new license with a mode that enables auth
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
        License.OperationMode.TRIAL,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest(new Request("GET", "/")));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest(new Request("GET", "/_xpack/security/_authenticate")));
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

RequestOptions.Builder optionsBuilder = RequestOptions.DEFAULT.toBuilder();
optionsBuilder.addHeader("Authorization",
UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray())));
RequestOptions options = optionsBuilder.build();

Request rootRequest = new Request("GET", "/");
rootRequest.setOptions(options);
Response authorizedRootResponse = getRestClient().performRequest(rootRequest);
assertThat(authorizedRootResponse.getStatusLine().getStatusCode(), is(200));
Request authenticateRequest = new Request("GET", "/_xpack/security/_authenticate");
authenticateRequest.setOptions(options);
Response authorizedAuthenticateResponse = getRestClient().performRequest(authenticateRequest);
assertThat(authorizedAuthenticateResponse.getStatusLine().getStatusCode(), is(200));
}

public void testSecurityActionsByLicenseType() throws Exception {
    // security actions should not work!
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        fail("security actions should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
    }

    // enable a license that enables security
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
    License.OperationMode.TRIAL,
    License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    // security actions should work!
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        PutUserResponse response = new SecurityClient(client).preparePutUser("john", "password".toCharArray(),
        Hasher.BCRYPT).get();
        assertNotNull(response);
    }
}

public void testTransportClientAuthenticationByLicenseType() throws Exception {
    Settings.Builder builder = Settings.builder()
// remove user info
builder.remove(SecurityField.USER_SETTING.getKey());
builder.remove(ThreadContext.PREFIX + "." + UsernamePasswordToken.BASIC_AUTH_HEADER);

// basic has no auth
try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    assertGreenClusterState(client);
}

// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    client.admin().cluster().prepareHealth().get();
    fail("should not have been able to connect to a node!");
} catch (NoNodeAvailableException e) {
    // expected
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    ensureGreen();

    final List<String> unicastHostsList = internalCluster().masterClient().admin().cluster().nodesInfo(new
NodesInfoRequest()).get().getNodes().stream().map(n -&gt; n.getTransport().getAddress().publishAddress().toString()).distinct().collect(Collectors.toList());

    Path home = createTempDir();
    Path conf = home.resolve("config");
    Files.createDirectories(conf);
    Settings nodeSettings = Settings.builder()
        .put(nodeSettings(maxNumberOfNodes() - 1).filter(s &gt; "xpack.security.enabled".equals(s) == false))
        .put("node.name", "my-test-node")
        .put("network.host", "localhost")
        .put("cluster.name", internalCluster().getClusterName())
        .put("discovery.zen.minimum_master_nodes",
        .put("xpack.security.enabled", true));

    Path home = createTempDir();
    Path conf = home.resolve("config");
    Files.createDirectories(conf);
    Settings nodeSettings = Settings.builder()
        .put(nodeSettings(maxNumberOfNodes() - 1).filter(s &gt; "xpack.security.enabled".equals(s) == false))
        .put("node.name", "my-test-node")
        .put("network.host", "localhost")
        .put("cluster.name", internalCluster().getClusterName())
        .put("discovery.zen.minimum_master_nodes",

internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes")
.put("path.home", home)
.put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
.put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
.putList(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey())
.putList(DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(), unicastHostsList)
.build();
Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
TestZenDiscovery.TestPlugin.class);
try (Node node = new MockNode(nodeSettings, mockPlugins)) {
    node.start();
    ensureStableCluster(cluster().size() + 1);
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
    assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.SECURITY));

    ensureStableCluster(cluster().size() + 1);
}

public static void disableLicensing() {
    disableLicensing(License.OperationMode.BASIC);
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(License.OperationMode.BASIC);
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

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<!DOCTYPE html>
<html lang="en">

</html>
Watch
</a>

<a class="social-count" href="/vt-middleware/cryptacular/watchers"
   aria-label="9 users are watching this repository">
   9
</a>

</li>

</li>

<a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
   class="btn btn-sm btn-with-count tooltipped tooltipped-n"
   aria-label="You must be signed in to star a repository" rel="nofollow">
   <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
      width="14"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-
     4.74z"/></svg>
   Star
</a>

<a class="social-count js-social-count" href="/vt-middleware/cryptacular/stargazers"
   aria-label="15 users starred this repository">
   15
</a>

</li>

</li>

<a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
   class="btn btn-sm btn-with-count tooltipped tooltipped-n"
   aria-label="You must be signed in to fork a repository" rel="nofollow">
   <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
      width="10"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0 0-1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 0 0 2 1a1.993 1.993 0 0 0-1 3.72V6.5l3v1.78A1.993 1.993 0 0 0 5 15a1.993 1.993 0 0 0 1-3.72V9.5l3V4.72A1.993 1.993 0 0 0 8 1zM2 4.2C1.34 4.2.8 3.65.8 3c0-.65.55-1.2 1.2-1.2 .65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-.66 0-1.2-.55-1.2-1.2 0 .65-.55 1.2-1.2 1.2 .65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0 .65-.55 1.2-1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
   Fork
</a>

<a href="/vt-middleware/cryptacular/network" class="social-count"
   aria-label="1 user forked this repository">
   1
</a>

</li>

</ul>

<h1 class="public ">
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

4290

Nothing to show

4290
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*/

package org.elasticsearch.xpack.ccr;
import org.elasticsearch.client.Request;
import org.elasticsearch.client.ResponseException;

import java.util.Locale;

import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasToString;

public class CcrMultiClusterLicenseIT extends ESCCRRestTestCase {

public void testFollow() {
    if ("follow".equals(targetCluster)) {
        final Request request = new Request("PUT", "/follower/_ccr/follow");
        request.setJsonEntity("{"remote_cluster": "leader_cluster", "leader_index": "leader\"" });
        assertNonCompliantLicense(request);
    }
}

public void testAutoFollow() throws Exception {
    if ("follow".equals(targetCluster)) {
        final Request request = new Request("PUT", "/ccr/auto_follow/test_pattern");
        request.setJsonEntity("{"leader_index_patterns": ["\"leader_cluster\" : ["leader\"" ]}, "remote_cluster": "leader_cluster\"" ");
        final ResponseException e = expectThrows(ResponseException.class, () -> client().performRequest(request));
        final String expected = String.format(
            Locale.ROOT,
            "can not fetch remote cluster state as the remote cluster [%s] is not licensed for [ccr]; " +
            "the license mode [BASIC] on cluster [%s] does not enable [ccr]",
            "leader_cluster",
            "leader_cluster");
        assertThat(e, hasToString(containsString(expected)));
    }
}

private static void assertNonCompliantLicense(final Request request) {
    final ResponseException e = expectThrows(ResponseException.class, () -> client().performRequest(request));
    final String expected = String.format(
        Locale.ROOT,
        "can not fetch remote index [%s] metadata as the remote cluster [%s] is not licensed for [ccr]; " +
        "the license mode [BASIC] on cluster [%s] does not enable [ccr]",
        "leader_cluster:leader",
        "leader_cluster",
        "leader_cluster");
    assertThat(e, hasToString(containsString(expected)));
}
}
import org.elasticsearch.gradle.test.RestIntegTestTask

apply plugin: 'elasticsearch.standalone-test'

dependencies {
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('ccr'), configuration: 'runtime')
    testCompile project(':x-pack:plugin:ccr:qa:')
}

task leaderClusterTest(type: RestIntegTestTask) {
    mustRunAfter(precommit)
}

leaderClusterTestCluster {
    numNodes = 1
    clusterName = 'leader-cluster'
}

leaderClusterTestRunner {
    systemProperty 'tests.target_cluster', 'leader'
}

task followClusterTest(type: RestIntegTestTask) {}

followClusterTestCluster {
    dependsOn leaderClusterTestRunner
    numNodes = 1
    clusterName = 'follow-cluster'
    setting 'xpack.license.self_generated.type', 'trial'
    setting 'cluster.remote.leader_cluster.seeds', "\"${-> leaderClusterTest.nodes.get(0).transportUri()}\""
}

followClusterTestRunner {
    systemProperty 'tests.target_cluster', 'follow'
    systemProperty 'tests.leader_host', "${-> leaderClusterTest.nodes.get(0).httpUri()}
    finalizedBy 'leaderClusterTestCluster#stop'
}

cHECK.dependsOn followClusterTest
test.enabled = false

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 */
package org.elasticsearch.xpack.ccr;
import org.apache.lucene.util.Constants;
import org.elasticsearch.client.Request;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.io.PathUtils;
import org.elasticsearch.common.settings.Settings;
import java.io.IOException;
import java.nio.file.Files;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.xpack.core.watcher.support.xcontent.ObjectPath.eval;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.core.Is.is;

public class FollowIndexIT extends ESCCRRestTestCase {

    public void testDowngradeRemoteClusterToBasic() throws Exception {
        if ("follow".equals(targetCluster) == false) {
            return;
        }

        Request request = new Request("PUT", "/_ccr/auto_follow/test_pattern");
        request.setJsonEntity("{"leader_index_patterns": ["logs-*"], "remote_cluster": "leader_cluster"}");
        assertOK(client().performRequest(request));

        String index1 = "logs-20190101";
        try (RestClient leaderClient = buildLeaderClient()) {
            createNewIndexAndIndexDocs(leaderClient, index1);
            }

        assertBusy(() -> {
            ensureYellow(index1);
            verifyDocuments(index1, 5, "filtered_field:true");
        });

        String index2 = "logs-20190102";
        try (RestClient leaderClient = buildLeaderClient()) {
            Request request = new Request("POST", "/_xpack/license/start_basic");
            request.addParameter("acknowledge", "true");
            Map<?, ?> response = toMap(leaderClient.performRequest(request));
        };

        String index3 = "logs-20190103";
        try (RestClient leaderClient = buildLeaderClient()) {
            Request request = new Request("POST", "/_xpack/license/start_basic");
            request.addParameter("acknowledge", "true");
            Map<?, ?> response = toMap(leaderClient.performRequest(request));
        };
    }
}
assertThat(response.get("basic_was_started"), is(true));
assertThat(response.get("acknowledged"), is(true));

createNewIndexAndIndexDocs(leaderClient, index2);
index(leaderClient, index1, "5", "field", 5, "filtered_field", "true");
}

assertBusy(() -> {
  Request statsRequest = new Request("GET", "/_ccr/stats");
  Map<?, ?> response = toMap(client().performRequest(statsRequest));
  assertThat(eval("auto_follow_stats.number_of_successful_follow_indices", response), equalTo(1));
  assertThat(eval("auto_follow_stats.number_of_failed_remote_cluster_state_requests", response),
    greaterThanOrEqualTo(1));
  assertThat(eval("auto_follow_stats.recent_auto_follow_errors.0.auto_follow_exception.reason", response),
    containsString("the license mode [BASIC] on cluster [leader_cluster] does not enable [ccr]");

  // Follow indices actively following leader indices before the downgrade to basic license remain to follow
  // the leader index after the downgrade, so document with id 5 should be replicated to follower index:
  verifyDocuments(index1, 6, "filtered_field:true");

  // Index2 was created in leader cluster after the downgrade and therefor the auto follow coordinator in
  // follow cluster should not pick that index up:
  assertThat(indexExists(index2), is(false));

  // parse the logs and ensure that the auto-coordinator skipped coordination on the leader cluster
  // (does not work on windows...)
  if (Constants.WINDOWS == false) {
    assertBusy(() -> {
      final List<String> lines = Files.readAllLines(PathUtils.get(System.getProperty("log")));
      final Iterator<String> it = lines.iterator();
      boolean warn = false;
      while (it.hasNext()) {
        final String line = it.next();
        if (line.matches(".*\[WARN\s*\]\[o\.e\.x\.c\.a\.AutoFollowCoordinator\s*\] \[node-0\] " +
            "failure occurred while fetching cluster state for auto follow pattern \{test_pattern\}")) {
          warn = true;
        } else {
          break;
        }
      }
      assertTrue(warn);
      assertTrue(it.hasNext());
      final String lineAfterWarn = it.next();
      assertThat(lineAfterWarn,
        equalTo("org.elasticsearch.ElasticsearchStatusException: " +
          "can not fetch remote cluster state as the remote cluster [leader_cluster] is not licensed for [ccr]; " +
          "the license mode [BASIC] on cluster [leader_cluster] does not enable [ccr]");
    });
  }
private void createNewIndexAndIndexDocs(RestClient client, String index) throws IOException {
    Settings settings = Settings.builder()
        .put("index.soft_deletes.enabled", true)
        .build();
    Request request = new Request("PUT", "/" + index);
    request.setJsonEntity("{"settings": " + Strings.toString(settings) + "}, ")
        .setJsonEntity("{"mappings": {"_doc": {"properties": {"field": {"type": "keyword"}}}} }" + Strings.toString(settings) + "}, ")
        .setJsonEntity("{"mappings": {"_doc": {"properties": {"field": {"type": "keyword"}}}} }" + Strings.toString(settings) + "}, ")
        .setJsonEntity("{"mappings": {"_doc": {"properties": {"field": {"type": "keyword"}}}} }" + Strings.toString(settings) + "}, ");
    assertOK(client.performRequest(request));

    for (int i = 0; i < 5; i++) {
        String id = Integer.toString(i);
        index(client, index, id, "field", i, "filtered_field", "true");
    }
}

import org.elasticsearch.gradle.test.RestIntegTestTask
apply plugin: 'elasticsearch.standalone-test'
dependencies {
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('ccr'), configuration: 'runtime')
    testCompile project(':x-pack:plugin:ccr:qa')
}
task leaderClusterTest(type: RestIntegTestTask) {
    mustRunAfter(precommit)
}
leaderClusterTestCluster {
    numNodes = 1
    clusterName = 'leader-cluster'
    setting 'xpack.license.self_generated.type', 'trial'
}
leaderClusterTestRunner {
    systemProperty 'tests.target_cluster', 'leader'
}
task writeJavaPolicy {
    doLast { 
        final File tmp = file("${buildDir}/tmp")
        if (tmp.exists() == false && tmp.mkdirs() == false) {
            throw new GradleException("failed to create temporary directory \[${tmp}\]")
        }
        final File javaPolicy = file("${tmp}/java.policy")
        javaPolicy.write("[
            "grant {",
            "  permission java.io.FilePermission \${-> followClusterTest.getNodes().get(0).homeDir}/logs/\${-> followClusterTest.getNodes().get(0).clusterName}.log", "read";",
            " ];",
            ]\n        ).join("\n")
    }
}

task followClusterTest(type: RestIntegTestTask) {}
followClusterTest.dependsOn writeJavaPolicy

followClusterTestCluster {
    dependsOn leaderClusterTestRunner
    numNodes = 1
    clusterName = 'follow-cluster'
    setting 'xpack.monitoring.collection.enabled', 'true'
    setting 'xpack.license.self_generated.type', 'trial'
    setting 'cluster.remote.leader_cluster.seeds', \"${-> leaderClusterTest.nodes.get(0).transportUri()}\""
}

followClusterTestRunner {
    systemProperty 'java.security.policy', "file://${buildDir}/tmp/java.policy"
    systemProperty 'tests.target_cluster', 'follow'
    systemProperty 'tests.leader_host', \"${-> leaderClusterTest.nodes.get(0).httpUri()}\""
    systemProperty 'log', \"${-> followClusterTest.getNodes().get(0).homeDir}/logs/\${-> followClusterTest.getNodes().get(0).clusterName}.log\"
    finalizedBy 'leaderClusterTestCluster#stop'
}

cHECK.dependsOn followClusterTest
test.enabled = false // no unit tests for multi-cluster-search, only the rest integration test

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 */
package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilegeDescriptor;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static java.util.Collections.singletonList;
import static org.hamcrest.Matchers.containsInAnyOrder;
import static org.hamcrest.Matchers.equalTo;

public class ApplicationPermissionTests extends ESTestCase {

private List<ApplicationPrivilegeDescriptor> store = new ArrayList<>();

private ApplicationPrivilege app1All = storePrivilege("app1", "all", "*"),
private ApplicationPrivilege app1Empty = storePrivilege("app1", "empty"),
private ApplicationPrivilege app1Read = storePrivilege("app1", "read", "read/*"),
private ApplicationPrivilege app1Write = storePrivilege("app1", "write", "write/*"),
private ApplicationPrivilege app1Delete = storePrivilege("app1", "delete", "write/delete"),
private ApplicationPrivilege app1Create = storePrivilege("app1", "create", "write/create"),
private ApplicationPrivilege app2Read = storePrivilege("app2", "read", "read/*"),

private ApplicationPrivilege storePrivilege(String app, String name, String... patterns) {
    store.add(new ApplicationPrivilegeDescriptor(app, name, Sets.newHashSet(patterns),
Collections.emptyMap()));
    return new ApplicationPrivilege(app, name, patterns);
}

public void testCheckSimplePermission() {
    final ApplicationPermission hasPermission = buildPermission(app1Write, "*");
    assertThat(hasPermission.grants(app1Write, "*"), equalTo(true));
    assertThat(hasPermission.grants(app1Write, "foo"), equalTo(true));
    assertThat(hasPermission.grants(app1Delete, "*"), equalTo(true));
    assertThat(hasPermission.grants(app1Create, "foo"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "*"), equalTo(false));
    assertThat(hasPermission.grants(app1Read, "foo"), equalTo(false));
    assertThat(hasPermission.grants(app1All, "*"), equalTo(false));
    assertThat(hasPermission.grants(app1All, "foo"), equalTo(false));
}
public void testNonePermission() {
    final ApplicationPermission hasPermission = buildPermission(ApplicationPrivilege.NONE.apply("app1"), "*");
    for (ApplicationPrivilege privilege : Arrays.asList(app1All, app1Empty, app1Create, app1Delete, app1Read, app1Write, app2Read)) {
        assertThat("Privilege " + privilege + " on " + privilege, hasPermission.grants(privilege, "+"), equalTo(false));
        final String resource = randomAlphaOfLengthBetween(1, 6);
        assertThat("Privilege " + privilege + " on " + resource, hasPermission.grants(privilege, resource),
                  equalTo(false));
    }
}

public void testResourceMatching() {
    final ApplicationPermission hasPermission = buildPermission(app1All, "dashboard/\*", "audit/\*", "user/12345");

    assertThat(hasPermission.grants(app1Write, "+"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "dashboard"), equalTo(false));
    assertThat(hasPermission.grants(app1Write, "dashboard/999"), equalTo(true));

    assertThat(hasPermission.grants(app1Create, "audit/2018-02-21"), equalTo(true));
    assertThat(hasPermission.grants(app1Create, "report/2018-02-21"), equalTo(false));

    assertThat(hasPermission.grants(app1Read, "user/12345"), equalTo(true));
    assertThat(hasPermission.grants(app1Read, "user/67890"), equalTo(false));

    assertThat(hasPermission.grants(app1All, "dashboard/999"), equalTo(true));
    assertThat(hasPermission.grants(app1All, "audit/2018-02-21"), equalTo(true));
    assertThat(hasPermission.grants(app1All, "user/12345"), equalTo(true));
}

public void testActionMatching() {
    final ApplicationPermission hasPermission = buildPermission(app1Write, "allow/\*");

    final ApplicationPrivilege update = actionPrivilege("app1", "write/update");
    assertThat(hasPermission.grants(update, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(update, "deny/1"), equalTo(false));

    final ApplicationPrivilege updateCreate = actionPrivilege("app1", "write/update", "write/create");
    assertThat(hasPermission.grants(updateCreate, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(updateCreate, "deny/1"), equalTo(false));

    final ApplicationPrivilege manage = actionPrivilege("app1", "admin/manage");
    assertThat(hasPermission.grants(manage, "allow/1"), equalTo(true));
    assertThat(hasPermission.grants(manage, "deny/1"), equalTo(false));
}

public void testDoesNotMatchAcrossApplications() {
assertThat(buildPermission(app1Read, "*"), grants(app1Read, "123"), equalTo(true));
assertThat(buildPermission(app1All, "*").grants(app1Read, "123"), equalTo(true));

assertThat(buildPermission(app1Read, "*"), grants(app2Read, "123"), equalTo(false));
assertThat(buildPermission(app1All, "*").grants(app2Read, "123"), equalTo(false));
}

public void testMergedPermissionChecking() {
  final ApplicationPrivilege app1ReadWrite = compositePrivilege("app1", app1Read, app1Write);
  final ApplicationPermission hasPermission = buildPermission(app1ReadWrite, "allow/*");

  assertThat(hasPermission.grants(app1Read, "allow/1"), equalTo(true));
  assertThat(hasPermission.grants(app1Write, "allow/1"), equalTo(true));

  assertThat(hasPermission.grants(app1Read, "deny/1"), equalTo(true));
  assertThat(hasPermission.grants(app1Write, "deny/1"), equalTo(true));

  assertThat(hasPermission.grants(app1All, "allow/1"), equalTo(true));
  assertThat(hasPermission.grants(app2Read, "allow/1"), equalTo(true));

  public void testInspectPermissionContents() {
    final ApplicationPrivilege app1ReadWrite = compositePrivilege("app1", app1Read, app1Write);
    ApplicationPermission perm = new ApplicationPermission(Arrays.asList(
      new Tuple<>(app1Read, Sets.newHashSet("obj/1", "obj/2")),
      new Tuple<>(app1Write, Sets.newHashSet("obj/3", "obj/4")),
      new Tuple<>(app1ReadWrite, Sets.newHashSet("obj/5")),
      new Tuple<>(app1All, Sets.newHashSet("obj/6", "obj/7")),
      new Tuple<>(app2Read, Sets.newHashSet("obj/1", "obj/8"))
    ));
    assertThat(perm.getApplicationNames(), containsInAnyOrder("app1", "app2"));
    assertThat(perm.getPrivileges("app1"), containsInAnyOrder(app1Read, app1Write, app1ReadWrite, app1All));
    assertThat(perm.getPrivileges("app2"), containsInAnyOrder(app2Read));
    assertThat(perm.getResourcePatterns(app1Read), containsInAnyOrder("obj/1", "obj/2", "obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1Write), containsInAnyOrder("obj/3", "obj/4", "obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1ReadWrite), containsInAnyOrder("obj/5", "obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app1All), containsInAnyOrder("obj/6", "obj/7"));
    assertThat(perm.getResourcePatterns(app2Read), containsInAnyOrder("obj/1", "obj/8"));
  }

  private ApplicationPrivilege actionPrivilege(String appName, String... actions) {
    return ApplicationPrivilege.get(appName, Sets.newHashSet(actions), Collections.emptyList());
  }

  private ApplicationPrivilege compositePrivilege(String application, ApplicationPrivilege... children) {
    Set<String> names =
Stream.of(children).map(ApplicationPrivilege::name).flatMap(Set::stream).collect(Collectors.toSet());
return ApplicationPrivilege.get(application, names, store);
}

private ApplicationPermission buildPermission(ApplicationPrivilege privilege, String... resources) {
return new ApplicationPermission(singletonList(new Tuple<>(privilege, Sets.newHashSet(resources))));
}
}
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*/
package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
public class FieldPermissionsCacheTests extends ESTestCase {
public void testFieldPermissionsCaching() {
FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String[] allowed = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*",
randomAlphaOfLength(5) + "*"};
String[] denied = new String[]{allowed[0] + randomAlphaOfLength(5), allowed[1] +
randomAlphaOfLength(5),
allowed[2] + randomAlphaOfLength(5)};
FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
assertNotNull(fieldPermissions);
final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
assertSame(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));
}
public void testMergeFieldPermissions() {
FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String allowedPrefix1 = randomAlphaOfLength(5);
String allowedPrefix2 = randomAlphaOfLength(5);
String[] allowed1 = new String[]{allowedPrefix1 + "*"};
String[] allowed2 = new String[]{allowedPrefix2 + "*"};
String[] denied1 = new String[]{allowedPrefix1 + "a"};
String[] denied2 = new String[]{allowedPrefix2 + "a"};

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4306


FieldPermissions fieldPermissions1 = randomBoolean() ?
    fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
FieldPermissions fieldPermissions2 = randomBoolean() ?
    fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
FieldPermissions mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));

allowed1 = new String[][]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
allowed2 = null;
denied1 = new String[][]{allowed1[0] + "a", allowed1[1] + "a"};
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());

allowed1 = new String[][]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
allowed2 = new String[][]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
denied1 = new String[][]{allowed2[0] + "a", allowed2[1] + "a"};
denied2 = new String[][]{allowed2[0] + "a", allowed2[1] + "a"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
for (String field : allowed2) {
    assertTrue(mergedFieldPermissions.grantsAccessTo(field));
}
for (String field : denied2) {
    assertFalse(mergedFieldPermissions.grantsAccessTo(field));
}

allowed1 = randomBoolean() ? null : new String[]{"*"};
allowed2 = randomBoolean() ? null : new String[]{"*"};
denied1 = new String[]{"a"};
denied2 = new String[]{"b"};
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

// test merge does not remove _all
allowed1 = new String[1]{"_all"};
allowed2 = new String[1]{};
denied1 = null;
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(fieldPermissions1.grantsAccessTo("_all"));
assertFalse(fieldPermissions2.grantsAccessTo("_all"));
assertTrue(mergedFieldPermissions.grantsAccessTo("_all"));

allowed1 = new String[1] { "a*" };
allowed2 = new String[1] { "b*" };
denied1 = new String[1] { "aa*" };
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertFalse(mergedFieldPermissions.grantsAccessTo("aa"));
assertTrue(mergedFieldPermissions.grantsAccessTo("a1"));
}

public void testNonFlsAndFlsMerging() {
    List<FieldPermissions> permissionsList = new ArrayList<>();
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field1" }, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field2" }, "query*"), null));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field1", "field2" }, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { }, null)));
    FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);
for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {
    Collections.shuffle(permissionsList, random());
    FieldPermissions result = cache.getFieldPermissions(permissionsList);
    assertFalse(result.hasFieldLevelSecurity());
}

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {
    return new FieldPermissionsDefinition(granted, denied);
}

package org.elasticsearch.protocol.xpack.license;

import java.io.IOException;
import org.elasticsearch.test.ESTestCase;

public class LicenseStatusTests extends ESTestCase {
    public void testSerialization() throws IOException {
        LicenseStatus status = randomFrom(LicenseStatus.values());
       assertSame(status, copyWriteable(status, writableRegistry(), LicenseStatus::readFrom));
    }
}

package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.AbstractStreamableXContentTestCase;

public class PutLicenseResponseTests extends AbstractStreamableXContentTestCase<PutLicenseResponse> {

    @Override
protected boolean supportsUnknownFields() {
    return true;
}

@Override
protected Predicate<String> getRandomFieldsExcludeFilter() {
    // The structure of the response is such that unknown fields inside acknowledge cannot be supported since they
    // are treated as messages from new services
    return p -> p.startsWith("acknowledge");
}

@Override
protected PutLicenseResponse createTestInstance() {
    boolean acknowledged = randomBoolean();
    LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID, LicensesStatus.EXPIRED);
    String messageHeader;
    Map<String, String[]> ackMessages;
    if (randomBoolean()) {
        messageHeader = randomAlphaOfLength(10);
        ackMessages = randomAckMessages();
    } else {
        messageHeader = null;
        ackMessages = Collections.emptyMap();
    }

    return new PutLicenseResponse(acknowledged, status, messageHeader, ackMessages);
}

private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);
    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];

        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }

        ackMessages.put(feature, messages);
    }

    return ackMessages;
}

@Override
protected PutLicenseResponse doParseInstance(XContentParser parser) throws IOException {
    return PutLicenseResponse.fromXContent(parser);
}

@Override
protected PutLicenseResponse createBlankInstance() {
    return new PutLicenseResponse();
}

@Override
protected PutLicenseResponse mutateInstance(PutLicenseResponse response) {
    @SuppressWarnings("unchecked")
    Function<PutLicenseResponse, PutLicenseResponse> mutator = randomFrom(
        r -> new PutLicenseResponse(
            r.isAcknowledged() == false,
            r.status(),
            r.acknowledgeHeader(),
            r.acknowledgeMessages()),
        r -> new PutLicenseResponse(
            r.isAcknowledged(),
            mutateStatus(r.status()),
            r.acknowledgeHeader(),
            r.acknowledgeMessages()),
        r -> {
            if (r.acknowledgeMessages().isEmpty()) {
                return new PutLicenseResponse(
                    r.isAcknowledged(),
                    r.status(),
                    randomAlphaOfLength(10),
                    randomAckMessages()
                );
            } else {
                return new PutLicenseResponse(r.isAcknowledged(), r.status());
            }
        });
    return mutator.apply(response);
}

private LicensesStatus mutateStatus(LicensesStatus status) {
    return randomValueOtherThan(status, () -> randomFrom(LicensesStatus.values()));
}

/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.test.VersionUtils;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;

import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.hamcrest.Matchers.is;

/**
 * Unit tests for the {@link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

/** Creates a license state with the given license type and active state, and checks the given method returns
 expected. */
void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean expected) {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(mode, active, null);
    assertEquals(expected, predicate.test(licenseState));
}

/** Checks the ack message going from the { @code from} license type to { @code to} license type.
 * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
 */
void assertAckMesssages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
    String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
    assertEquals(expectedMessages, gotMessages.length);
}

static <T> T randomFrom(T[] values, Predicate<T> filter) {

return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
}

static OperationMode randomMode() {
    return randomFrom(OperationMode.values());
}

public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomTrialOrPlatinumMode() {
    return randomFrom(TRIAL, PLATINUM);
}

public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomBasicStandardOrGold() {
    return randomFrom(BASIC, STANDARD, GOLD);
}

public void testSecurityDefaults() {
    XPackLicenseState licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(),
                                                       true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(),
                                                      true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, true, null);

    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, false, null);

    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, true, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}
public void testSecurityStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, false, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, true, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(GOLD, false, null);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, true, null);
}
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, false, null);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testNewTrialDefaultsSecurityOff() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, VersionUtils.randomVersionBetween(random(), Version.V_6_3_0, Version.CURRENT));
    assertThat(licenseState.isSecurityDisabledByTrialLicense(), is(true));
    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testOldTrialDefaultsSecurityOn() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(TRIAL, true, rarely() ? null : VersionUtils.randomVersionBetween(random(), Version.V_5_6_0, Version.V_6_2_4));
    assertThat(licenseState.isSecurityDisabledByTrialLicense(), is(false));
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
}
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode != STANDARD);
    assertAckMessages(XPackField.SECURITY, BASIC, toMode, 0);
}

public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}

public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(), randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}
public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, false);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}

public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isGraphAllowed, false);
}
public void testGraphInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isMachineLearningAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

public void testSqlDefaults() {

}
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
assertThat(licenseState.isSqlAllowed(), is(true));
assertThat(licenseState.isJdbcAllowed(), is(true));
}

class XPackLicenseState { ...

public class LicenseState { ...

private static final String BASIC = ...
private static final String STANDARD = ...
private static final String GOLD = ...
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

class XPackLicenseState { ...

public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

class XPackLicenseState { ...

public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

class XPackLicenseState { ...

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}
assertThat(licenseState.isSqlAllowed(), is(false));
assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlAckAnyToTrialOrPlatinum() {
    assertAckMesssages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertAckMesssages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}

*/
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import static org.hamcrest.Matchers.equalTo;
public class LicenseScheduleTests extends ESTestCase {

    private License license;
    private SchedulerEngine.Schedule schedule;


@Before
public void setup() throws Exception {
    license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
    schedule = LicenseService.nextLicenseCheck(license);
}

public void testEnabledLicenseSchedule() throws Exception {
    int expiryDuration = (int) (license.expiryDate() - license.issueDate());
    long triggeredTime = license.issueDate() + between(0, expiryDuration);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(license.expiryDate()));
}

public void testGraceLicenseSchedule() throws Exception {
    long triggeredTime = license.expiryDate() + between(1,
            ((int) LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis()));
}

public void testExpiredLicenseSchedule() throws Exception {
    long triggeredTime = license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis() +
            randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                equalTo(-1L));
}

public void testInvalidLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(triggeredTime, triggeredTime),
                equalTo(license.issueDate()));
}
}

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// you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import java.util.Arrays;
import java.util.Collection;

import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0, autoMinMasterNodes = false)
public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return nodeSettingsBuilder(nodeOrdinal).build();
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put("resource.reload.interval.high", "500ms") // for license mode file watcher
                .put(NetworkModule.HTTP_ENABLED.getKey(), true);
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return nodePlugins();
    }

    public void testClusterNotRecovered() throws Exception {
        logger.info("--> start one master out of two [recovery state]");
        internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
        logger.info("--> start second master out of two [recovered state]");
        internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
        assertLicenseActive(true);
    }
}

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 */
public final class RemoteClusterLicenseCheckerTests extends ESTestCase {

    public void testIsNotRemoteIndex() {

    }

}
assertFalse(RemoteClusterLicenseChecker.isRemoteIndex("local-index"));
}

public void testIsRemoteIndex() {
    assertTrue(RemoteClusterLicenseChecker.isRemoteIndex("remote-cluster:remote-index"));
}

public void testNoRemoteIndex() {
    final List<String> indices = Arrays.asList("local-index", "local-index2");
    assertFalse(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
}

public void testRemoteIndex() {
    final List<String> indices = Arrays.asList("local-index", "remote-cluster:remote-index");
    assertTrue(RemoteClusterLicenseChecker.containsRemoteIndex(indices));
}

public void testNoRemoteIndices() {
    final List<String> indices = Collections.singletonList("local-index");
    assertThat(RemoteClusterLicenseChecker.remoteIndices(indices), is(empty()));
}

public void testRemoteIndices() {
    final List<String> indices = Arrays.asList("local-index1", "remote-cluster1:index1", "local-index2", "remote-cluster2:index1");
    assertThat(RemoteClusterLicenseChecker.remoteIndices(indices), containsInAnyOrder("remote-cluster1:index1", "remote-cluster2:index1"));
}

public void testNoRemoteClusterAliases() {
    final List<String> indices = Arrays.asList("local-index1", "local-index2");
    assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), empty());
}

public void testOneRemoteClusterAlias() {
    final List<String> indices = Arrays.asList("local-index1", "remote-cluster1:remote-index1");
    assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), contains("remote-cluster1"));
}

public void testMoreThanOneRemoteClusterAlias() {
    final List<String> indices = Arrays.asList("remote-cluster1:remote-index1", "local-index1", "remote-cluster2:remote-index1");
    assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), contains("remote-cluster1", "remote-cluster2"));
}

public void testDuplicateRemoteClusterAlias() {
final List<String> indices = Arrays.asList("remote-cluster1:remote-index1", "local-index1", "remote-cluster2:index1", "remote-cluster2:remote-index2");

assertThat(RemoteClusterLicenseChecker.remoteClusterAliases(indices), contains("remote-cluster1", "remote-cluster2"));
}

public void testCheckRemoteClusterLicensesGivenCompatibleLicenses() {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();

    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClient(threadPool);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener = 
        (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

    final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));

    final RemoteClusterLicenseChecker licenseChecker = 
    new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
    final AtomicReference<RemoteClusterLicenseChecker.LicenseCheck> licenseCheck = new 
    AtomicReference<>();

    licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases,
        doubleInvocationProtectingListener(new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>()
            {
                @Override
                public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                    licenseCheck.set(response);
                }
            },
            {
                @Override
                public void onFailure(final Exception e) {
                    fail(e.getMessage());
                }
            }));

    verify(client, times(3)).execute(same(XPackInfoAction.INSTANCE), any(), any());
}
public void testCheckRemoteClusterLicensesGivenIncompatibleLicense() {
    final AtomicInteger index = new AtomicInteger();
    final List<String> remoteClusterAliases = Arrays.asList("good", "cluster-with-basic-license", "good2");
    final List<XPackInfoResponse> responses = new ArrayList<>();
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createBasicLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClient(threadPool);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());
    final RemoteClusterLicenseChecker licenseChecker =
        new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
    final AtomicReference<RemoteClusterLicenseChecker.LicenseCheck> licenseCheck = new AtomicReference<>();
    licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases,
        doubleInvocationProtectingListener(new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>()
        {
            @Override
            public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                licenseCheck.set(response);
            }
        }));
    verify(client, times(2)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    assertNotNull(licenseCheck.get());
    assertFalse(licenseCheck.get().isSuccess());
    assertThat(licenseCheck.get().remoteClusterLicenseInfo().clusterAlias(), equalTo("cluster-with-basic-license"));
}

verify(client, times(2)).execute(same(XPackInfoAction.INSTANCE), any(), any());
assertNotNull(licenseCheck.get());
assertFalse(licenseCheck.get().isSuccess());
assertThat(licenseCheck.get().remoteClusterLicenseInfo().licenseInfo().getType(), equalTo("BASIC"));
}

public void testCheckRemoteClusterLicencesGivenNonExistentCluster() {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();

    final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
    final String failingClusterAlias = randomFrom(remoteClusterAliases);
    final ThreadPool threadPool = createMockThreadPool();
    final Client client = createMockClientThatThrowsOnGetRemoteClusterClient(threadPool, failingClusterAlias);
    doAnswer(invocationMock -> {
        @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
            (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
        listener.onResponse(responses.get(index.getAndIncrement()));
        return null;
    }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
    responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));

    final RemoteClusterLicenseChecker licenseChecker =
        new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);
    final AtomicReference<Exception> exception = new AtomicReference<>();

    licenseChecker.checkRemoteClusterLicenses(
        remoteClusterAliases,
        doubleInvocationProtectingListener(new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>()
        {
            @Override
            public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
                fail();
            }

            @Override
            public void onFailure(final Exception e) {
                exception.set(e);
            }
        }));

    assertNotNull(exception.get());
    assertThat(exception.get(), instanceOf(ElasticsearchException.class));
    assertThat(exception.get().getMessage(), equalTo("could not determine the license type for cluster 
" + failingClusterAlias + "]"));
    assertNotNull(exception.get().getCause());
assertThat(exception.get().getCause(), instanceOf(IllegalArgumentException.class));
}

public void testRemoteClusterLicenseCallUsesSystemContext() throws InterruptedException {
    final ThreadPool threadPool = new TestThreadPool(getTestName());

    try {
        final Client client = createMockClient(threadPool);
        doAnswer(invocationMock -> {
            assertTrue(threadPool.getThreadContext().isSystemContext());
            @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
                (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
            listener.onResponse(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
            return null;
        }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

        final RemoteClusterLicenseChecker licenseChecker =
            new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);

        final List<String> remoteClusterAliases = Collections.singletonList("valid");
        licenseChecker.checkRemoteClusterLicenses(
            remoteClusterAliases, doubleInvocationProtectingListener(ActionListener.wrap(() -> {})));

        verify(client, times(1)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    } finally {
        terminate(threadPool);
    }
}

public void testListenerIsExecutedWithCallingContext() throws InterruptedException {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();

    final ThreadPool threadPool = new TestThreadPool(getTestName());

    try {
        final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
        final Client client;
        final boolean failure = randomBoolean();
        if (failure) {
            client = createMockClientThatThrowsOnGetRemoteClusterClient(threadPool,
                randomFrom(remoteClusterAliases));
        } else {
            client = createMockClient(threadPool);
        }
        doAnswer(invocationMock -> {
            @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
                (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
            listener.onResponse(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
            return null;
        }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

        verify(client, times(1)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    } finally {
        terminate(threadPool);
    }
}

public void testListenerIsExecutedWithCallingContext() throws InterruptedException {
    final AtomicInteger index = new AtomicInteger();
    final List<XPackInfoResponse> responses = new ArrayList<>();

    final ThreadPool threadPool = new TestThreadPool(getTestName());

    try {
        final List<String> remoteClusterAliases = Arrays.asList("valid1", "valid2", "valid3");
        final Client client;
        final boolean failure = randomBoolean();
        if (failure) {
            client = createMockClientThatThrowsOnGetRemoteClusterClient(threadPool,
                randomFrom(remoteClusterAliases));
        } else {
            client = createMockClient(threadPool);
        }
        doAnswer(invocationMock -> {
            @SuppressWarnings("unchecked") ActionListener<XPackInfoResponse> listener =
                (ActionListener<XPackInfoResponse>) invocationMock.getArguments()[2];
            listener.onResponse(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
            return null;
        }).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

        verify(client, times(1)).execute(same(XPackInfoAction.INSTANCE), any(), any());
    } finally {
        terminate(threadPool);
    }
}
listener.onResponse(responses.get(index.getAndIncrement()));
return null;
}).when(client).execute(same(XPackInfoAction.INSTANCE), any(), any());

responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));
responses.add(new XPackInfoResponse(null, createPlatinumLicenseResponse(), null));

final RemoteClusterLicenseChecker licenseChecker =
new RemoteClusterLicenseChecker(client, XPackLicenseState::isPlatinumOrTrialOperationMode);

final AtomicBoolean listenerInvoked = new AtomicBoolean();

threadPool.getThreadContext().putHeader("key", "value");

licenseChecker.checkRemoteClusterLicenses(
remoteClusterAliases,
doubleInvocationProtectingListener(new
ActionListener<RemoteClusterLicenseChecker.LicenseCheck>() {

@Override
public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
if (failure) {
fail();
}
assertThat(threadPool.getThreadContext().getHeader("key"), equalTo("value"));
assertFalse(threadPool.getThreadContext().isSystemContext());
listenerInvoked.set(true);
}

@Override
public void onFailure(final Exception e) {
if (failure == false) {
fail();
}
assertThat(threadPool.getThreadContext().getHeader("key"), equalTo("value"));
assertFalse(threadPool.getThreadContext().isSystemContext());
listenerInvoked.set(true);
}
});

assertTrue(listenerInvoked.get());
}
finally {
terminate(threadPool);
}
}

public void testBuildErrorMessageForActiveCompatibleLicense() {
final XPackInfoResponse.LicenseInfo platinumLicence = createPlatinumLicenseResponse();


final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
    new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("platinum-cluster", platinumLicence);
final AssertionError e = expectThrows(
    AssertionError.class,
    () -> RemoteClusterLicenseChecker.buildErrorMessage("", info,
        RemoteClusterLicenseChecker::isLicensePlatinumOrTrial));
assertThat(e, hasToString(containsString("license must be incompatible to build error message")));
}

public void testBuildErrorMessageForIncompatibleLicense() {
    final XPackInfoResponse.LicenseInfo basicLicense = createBasicLicenseResponse();
    final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
        new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("basic-cluster", basicLicense);
    assertThat(
        RemoteClusterLicenseChecker.buildErrorMessage("Feature", info,
            RemoteClusterLicenseChecker::isLicensePlatinumOrTrial),
        equalTo("the license mode [BASIC] on cluster [basic-cluster] does not enable [Feature]");
    }

public void testBuildErrorMessageForInactiveLicense() {
    final XPackInfoResponse.LicenseInfo expiredLicense = createExpiredLicenseResponse();
    final RemoteClusterLicenseChecker.RemoteClusterLicenseInfo info =
        new RemoteClusterLicenseChecker.RemoteClusterLicenseInfo("expired-cluster", expiredLicense);
    assertThat(
        RemoteClusterLicenseChecker.buildErrorMessage("Feature", info,
            RemoteClusterLicenseChecker::isLicensePlatinumOrTrial),
        equalTo("the license on cluster [expired-cluster] is not active");
    }

private ActionListener<RemoteClusterLicenseChecker.LicenseCheck> doubleInvocationProtectingListener(
    final ActionListener<RemoteClusterLicenseChecker.LicenseCheck> listener) {
    final AtomicBoolean listenerInvoked = new AtomicBoolean();
    return new ActionListener<RemoteClusterLicenseChecker.LicenseCheck>() {

        @Override
        public void onResponse(final RemoteClusterLicenseChecker.LicenseCheck response) {
            if (listenerInvoked.compareAndSet(false, true) == false) {
                fail("listener invoked twice");
            }
            listener.onResponse(response);
        }

        @Override
        public void onFailure(final Exception e) {
            if (listenerInvoked.compareAndSet(false, true) == false) {
                fail("listener invoked twice");
            }
            listener.onFailure(e);
    }
}
private ThreadPool createMockThreadPool() {
    final ThreadPool threadPool = mock(ThreadPool.class);
    when(threadPool.getThreadContext()).thenReturn(new ThreadContext(Settings.EMPTY));
    return threadPool;
}

private Client createMockClient(final ThreadPool threadPool) {
    return createMockClient(threadPool, client ->
    when(client.getRemoteClusterClient(anyString())).thenReturn(client));
}

private Client createMockClientThatThrowsOnGetRemoteClusterClient(final ThreadPool threadPool, final String clusterAlias) {
    return createMockClient(
        threadPool,
        client -> {
            when(client.getRemoteClusterClient(clusterAlias)).thenThrow(new IllegalArgumentException());
            when(client.getRemoteClusterClient(argThat(not(clusterAlias)))).thenReturn(client);
        });
}

private Client createMockClient(final ThreadPool threadPool, final Consumer<Client> finish) {
    final Client client = mock(Client.class);
    when(client.threadPool()).thenReturn(threadPool);
    finish.accept(client);
    return client;
}

private XPackInfoResponse.LicenseInfo createPlatinumLicenseResponse() {
    return new XPackInfoResponse.LicenseInfo("uid", "PLATINUM", "PLATINUM", LicenseStatus.ACTIVE, randomNonNegativeLong());
}

private XPackInfoResponse.LicenseInfo createBasicLicenseResponse() {
    return new XPackInfoResponse.LicenseInfo("uid", "BASIC", "BASIC", LicenseStatus.ACTIVE, randomNonNegativeLong());
}

private XPackInfoResponse.LicenseInfo createExpiredLicenseResponse() {
    return new XPackInfoResponse.LicenseInfo("uid", "PLATINUM", "PLATINUM", LicenseStatus.EXPIRED, randomNonNegativeLong());
}
import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        Settings.Builder newSettings = Settings.builder();
        newSettings;

        public class LicensesTransportTests extends ESSingleNodeTestCase {

            @Override
            protected boolean resetNodeAfterTest() {
                return true;
            }

            @Override
            protected Collection<Class<? extends Plugin>> getPlugins() {
                return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
            }

            @Override
            protected Settings nodeSettings() {
                Settings.Builder newSettings = Settings.builder();
            }
        }
    }
}
newSettings.put(super.nodeSettings());
newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
// newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
// newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
return newSettings.build();
}

public void testEmptyGetLicense() throws Exception {
    // basic license is added async, we should wait for it
    assertBusy(() -> {
        try {
            final ActionFuture<GetLicenseResponse> getLicenseFuture =
                new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
            final GetLicenseResponse getLicenseResponse = getLicenseFuture.get();
            assertNotNull(getLicenseResponse.license());
            assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
        } catch (Exception e) {
            throw new RuntimeException("unexpected exception", e);
        }
    });
}

public void testPutLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutLicenseFromString() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    String licenseString = TestUtils.dumpLicense(signedLicense);
    // put license source
    PutLicenseRequestBuilder putLicenseRequestBuilder =

new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
    .setLicense(new BytesArray(licenseString.getBytes(StandardCharsets.UTF_8)),
        XContentType.JSON)
    .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutInvalidLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .setExpiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);

    // try to put license (should be invalid)
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
    License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
        TimeValue.timeValueMinutes(2));

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
}
assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

// try to get invalid license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutExpiredLicense() throws Exception {
    License expiredLicense = generateExpiredNonBasicLicense();
    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);
    PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.EXPIRED));
    // get license should not return the expired license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
    License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
    .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldSignedLicense));
    License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
    putLicenseRequestBuilder.setLicense(platinumSignedLicense);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(platinumSignedLicense));
}

public void testRemoveLicensesSimple() throws Exception {
    License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldLicense)
    .setAcknowledge(true);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldLicense));
}

public void testRemoveLicenseException() throws Exception {
    License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldLicense)
    .setAcknowledge(true);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldLicense));
}
.setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(goldLicense));
// delete all licenses
DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
    new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
AcknowledgedResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
// get licenses (expected no licenses)
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertNull(getLicenseResponse.license());
}

public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(dateMath("now+1h", now))
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
License license = TestUtils.generateSignedLicense(builder);

PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE).setLicense(license)
    .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import java.net.InetAddress;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
                TimeValue.timeValueHours(24L));
PutLicenseRequest request = new PutLicenseRequest();
request.acknowledge(true);
request.license(newLicense);
Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
XPackLicenseState licenseState = new XPackLicenseState(settings);
inetAddress = InetAddress.getLoopbackAddress();

setStateInitialState(null, licenseState, settings);
licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

inetAddress = InetAddress.getLoopbackAddress();
settings = Settings.builder()
    .put("xpack.security.enabled", true)
    .put("discovery.type", "single-node")
    .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setStateInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

public void testApplyLicenseInProdMode() throws Exception {
    final String licenseType = randomFrom("GOLD", "PLATINUM");
    License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
inetAddress = TransportAddress.META_ADDRESS;
    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("discovery.type", "single-node")
        .build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);

    setStateInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testApplyLicenseInProdMode() throws Exception {
    final String licenseType = randomFrom("GOLD", "PLATINUM");
    License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
inetAddress = TransportAddress.META_ADDRESS;
    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("discovery.type", "single-node")
        .build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);

    setStateInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

    settings = Settings.builder().put("xpack.security.enabled", false).build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

settings = Settings.builder()
    .put("xpack.security.enabled", true)
    .put("xpack.security.transport.ssl.enabled", true)
    .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));}

@Override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
                    emptyMap(), emptySet(), Version.CURRENT);
}

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlocks;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.watcher.watch.ClockMock;
import org.junit.After;
import org.junit.Before;

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 */
import java.nio.file.Path;
import java.util.Arrays;
import static java.util.Collections.emptySet;
import static java.util.Collections.singletonMap;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

    protected LicenseService licenseService;
    protected ClusterService clusterService;
    protected ResourceWatcherService resourceWatcherService;
    protected ClockMock clock;
    protected DiscoveryNodes discoveryNodes;
    protected Environment environment;
    protected String licenseType;

    @Before
    public void init() throws Exception {
        clusterService = mock(ClusterService.class);
        clock = ClockMock.frozen();
        discoveryNodes = mock(DiscoveryNodes.class);
        resourceWatcherService = mock(ResourceWatcherService.class);
        environment = mock(Environment.class);
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
        setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String selfGeneratedType) {
        Path tempDir = createTempDir();
        when(environment.configFile()).thenReturn(tempDir);
        licenseType = selfGeneratedType;
        settings = Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(),
            licenseType).build();
        licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService,
            licenseState);
        ClusterState state = mock(ClusterState.class);
        final ClusterBlocks noBlock = ClusterBlocks.builder().build();
        when(state.blocks()).thenReturn(noBlock);
       MetaData metaData = mock(MetaData.class);
        when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
        when(state.metaData()).thenReturn(metaData);
        final DiscoveryNode mockNode = getLocalNode();
when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
when(state.nodes()).thenReturn(discoveryNodes);
when(state.getNodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()
when(clusterService.state()).thenReturn(state);
when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
                        singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),
                        emptySet(), Version.CURRENT);
}

@After
public void tearDown() throws Exception {
    super.tearDown();
    licenseService.stop();
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;
public class SelfGeneratedLicenseTests extends ESTestCase {

    public void testBasic() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .maxNodes(5)
            .type(randomBoolean() ? "trial" : "basic")
            .issueDate(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
    }

    public void testTampered() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .type(randomBoolean() ? "trial" : "basic")
            .maxNodes(5)
            .issueDate(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
        final String originalSignature = trialLicense.signature();
        License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
            .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
            .build();
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
        assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));
    }

    public void testFrom1x() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
            .type("subscription")
            .subscriptionType("trial")
            .issuer("elasticsearch")
            .feature("")
            .version(License.VERSION_START)
            .maxNodes(5)
            .issueDate(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License pre20TrialLicense = specBuilder.build();
        License license =
    }
}
SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"),
   License.VERSION_CURRENT);
   assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
   assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not available", inFipsJvm());
   long issueDate = System.currentTimeMillis();
   License.Builder specBuilder = License.builder()
      .issuedTo("customer")
      .maxNodes(5)
      .issueDate(issueDate)
      .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis())
      .feature(""")
      .subscriptionType("trial")
      .version(1);
   License trialLicenseV1 = createTrialLicense(specBuilder);
   assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
}

private static License createTrialLicense(License.Builder specBuilder) {
   License spec = specBuilder
      .type(randomBoolean() ? "trial" : "basic")
      .issuer("elasticsearch")
      .uid(UUID.randomUUID().toString())
      .build();
   final String signature;
   try {
      XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
      spec.toXContent(contentBuilder, new
         ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
      byte[] encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
      byte[] bytes = new byte[4 + 4 + encrypt.length];
      ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
      byteBuffer.putInt(-spec.version())
         .putInt(encrypt.length)
         .put(encrypt);
      signature = Base64.getEncoder().encodeToString(bytes);
   } catch (IOException e) {
      throw new IllegalStateException(e);
   }
   return License.builder().fromLicenseSpec(spec, signature).build();
}
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package org.elasticsearch.license;

import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
                ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() +
                        LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
                        licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
                ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() +
                        LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
                        licenseMetaData.getLicense().expiryDate());
    }

}
ClusterState state = ClusterState.builder(new ClusterName("a")).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, licenseMetaData.getLicense().expiryDate());
}

public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    final License.Builder builder = License.builder()
        .uid(uid)
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type("basic")
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();
    MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
    ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, licenseMetaData.getLicense().expiryDate());
public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
        .uid(uid)
        .issuedTo("name")
        .maxNodes(1000)
        .issueDate(dateMath("now-10h", now))
        .type("basic")
        .expiryDate(dateMath("now-2h", now));
    License license = SelfGeneratedLicense.create(builder, License.VERSION_CURRENT);

    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();

    MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
        licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}
}
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.time.DateMathParser;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;

import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

public class TestUtils {

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = formatDateTimeFormatter.toDateMathParser();
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }
}
public static long dateMath(String time, final long now) {
    return dateMathParser.parse(time, () -> now);
}

public static LicenseSpec generateRandomLicenseSpec(int version) {
    boolean datesInMillis = randomBoolean();
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    String feature = "feature__" + randomInt();
    String issuer = "issuer__" + randomInt();
    String issuedTo = "issuedTo__" + randomInt();
    final String type;
    final String subscriptionType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        subscriptionType = randomFrom("gold", "silver", "platinum");
        type = "subscription"; //randomFrom("subscription", "internal", "development");
    } else {
        subscriptionType = null;
        type = randomFrom("basic", "dev", "gold", "silver", "platinum");
    }
    int maxNodes = RandomizedTest.randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType,
                        issuedTo, issuer, maxNodes);
    } else {
        String issueDate = dateMathString("now", now);
        String expiryDate = dateMathString("now+10d/d", now);
        return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo,
                        issuer, maxNodes);
    }
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    licenses.endObject();
    licenses.endArray();
    licenses.endObject();
    return licenses.string();
}
if (licenseSpec.issueDate != null) {
    licenses.field("issue_date", licenseSpec.issueDate);
} else {
    licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
}
if (licenseSpec.expiryDate != null) {
    licenses.field("expiry_date", licenseSpec.expiryDate);
} else {
    licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
}
licenses.field("version", licenseSpec.version);
licenses.endObject();
licenses.endArray();
licenses.endObject();
return Strings.toString(licenses);
}

public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }
    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }
    return builder.build();
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    }

```java
public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(String issueDate, String expiryDate) {
        this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate, "trial", "none", "customer", "elasticsearch", 5);
    }

    public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type, String subscriptionType, String issuedTo, String issuer, int maxNodes) {
        this.version = version;
        this.feature = feature;
        this.issueDateInMillis = issueDateInMillis;
        this.issueDate = null;
        this.expiryDateInMillis = expiryDateInMillis;
        this.expiryDate = null;
        this.uid = uid;
        this.type = type;
        this.subscriptionType = subscriptionType;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.maxNodes = maxNodes;
    }

    public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type,
                        String subscriptionType, String issuedTo, String issuer, int maxNodes) {
        this.version = version;
        this.feature = feature;
        this.issueDateInMillis = issueDateInMillis;
        this.issueDate = null;
        this.expiryDateInMillis = expiryDateInMillis;
        this.expiryDate = null;
        this.uid = uid;
        this.type = type;
        this.subscriptionType = subscriptionType;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.maxNodes = maxNodes;
    }
}
```
String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

private static Path getTestPriKeyPath() throws Exception {
    return getResourcePath("/private.key");
}

private static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, -1, expiryDuration);
}

public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START,
public static License generateSignedLicenseOldSignature() {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_START_DATE)
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(24).getMillis());
    return SelfGeneratedLicense.create(specBuilder, License.VERSION_START_DATE);
}

/**
 * This method which chooses the license type randomly if the type is null. However, it will not randomly
 * choose trial or basic types as those types can only be self-generated.
 */
public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration)
    throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() - TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = (type != null) ? type : randomFrom("silver", "dev", "gold", "platinum");
    }
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(version)
        .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
        .issueDate(issue)
        .type(licenseType)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType((type != null) ? type : randomFrom("dev", "gold", "platinum", "silver");
        builder.feature(randomAlphaOfLength(10));
    }
    final LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateSignedLicense(License.Builder builder) throws Exception {
LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
return signer.sign(builder.build());
}

public static License generateExpiredNonBasicLicense(long expiryDate) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"), expiryDate);
}

public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(type,
        System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(expiryDate)
        .issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

private static Path getResourcePath(String resource) throws Exception {
    Path resourceFile = createTempFile();
    try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
        Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
    }
    return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
    final LicensesStatus expectedStatus) {
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicReference<LicensesStatus> status = new AtomicReference<>();
    licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
        @Override
        public void onResponse(PutLicenseResponse licensesUpdateResponse) {
            status.set(licensesUpdateResponse.status());
        }
        @Override
        public void onFailure(Exception e) {
            status.set(LicensesStatus.ERROR);
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        Thread.currentThread().interrupt();
    }
    } finally {
        latch.countDown();
    }
    assert status.get().equals(expectedStatus);
}
    latch.countDown();}

@Override
public void onFailure(Exception e) {
    latch.countDown();}
}

try {
latch.await();
} catch (InterruptedException e) {
    Assert.fail(e.getMessage());
}
assertThat(status.get(), equalTo(expectedStatus));
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();
    public final List<Version> trialVersionUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }

    @Override
    void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
        trialVersionUpdates.add(mostRecentTrialVersion);
    }
}

/**
 * A license state that makes the @link #update(License.OperationMode, boolean, Version)
 * method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
    public void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
super.update(mode, active, mostRecentTrialVersion);
}
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */

package org.elasticsearch.license;

import org.elasticsearch.action ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;
import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return super.nodeSettings().put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    }

    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    protected Settings nodeSettings() {
        return super.nodeSettings().put(XPackSettings.SECURITY_ENABLED.getKey(), false);
.put(XPackSettings.MONITORING_ENABLED.getKey(), false)
.put(XPackSettings.WATCHER_ENABLED.getKey(), false)
.put(XPackSettings.GRAPH_ENABLED.getKey(), false)
.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
.build();

@Override
protected boolean resetNodeAfterTest() {
    return true;
}

@Before
public void waitForTrialLicenseToBeGenerated() throws Exception {
    assertBusy(() ->
        assertNotNull(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
}

public void testStoreAndGetLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
    TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
    final License getLicenses = licenseService.getLicense();
    assertThat(getLicenses, equalTo(platinumLicense));
}

// TODO: Add test/feature blocking the registration of basic license

public void testEffectiveLicenses() throws Exception {
    final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
    // put gold license
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
    // put platinum license
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
}

public void testInvalidLicenseStorage() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License signedLicense = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(2));
    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    TestUtils.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);
    // ensure that the invalid license never made it to cluster state
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));
}

public void testRemoveLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    // generate signed licenses
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(LicensesMetaData.LICENSE_TOMBSTONE));
    // remove signed licenses
    removeAndAckSignedLicenses(licenseService);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new
        ActionListener<ClusterStateUpdateResponse>() {
            @Override
            public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
                if (clusterStateUpdateResponse.isAcknowledged()) {
                    success.set(true);
                }
            }
        });
    }
}
latch.countDown();
}

@Override
public void onFailure(Exception throwable) {
    latch.countDown();
}
});
try {
    latch.await();
} catch (InterruptedException e) {
    fail(e.getMessage());
}
assertThat("remove license(s) failed", success.get(), equalTo(true));
}
}
/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.env.Environment;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;
@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase {

import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;

import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase {
@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return nodeSettingsBuilder(nodeOrdinal).build();
}

private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
    return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put("node.data", true)
            .put("resource.reload.interval.high", "500ms") // for license mode file watcher
            .put(NetworkModule.HTTP_ENABLED.getKey(), true);
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
                         Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterRestartWithLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(license.operationMode());

    logger.info("--> restart all nodes");
    internalCluster().fullRestart();
    ensureYellow();
    licensingClient = new LicensingClient(client());
    logger.info("--> get and check signed license");
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    logger.info("--> remove licenses");
    licensingClient.prepareDeleteLicense().get();
    assertOperationMode(License.OperationMode.MISSING);
}
logger.info("--> restart all nodes");
internalCluster().fullRestart();
licensingClient = new LicensingClient(client());
ensureYellow();
assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
}

public void testCloudInternalLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("cloud_internal", License.VERSION_CURRENT, System.currentTimeMillis(), TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(License.OperationMode.PLATINUM);
    writeCloudInternalMode("gold");
    assertOperationMode(License.OperationMode.GOLD);
    writeCloudInternalMode("basic");
    assertOperationMode(License.OperationMode.BASIC);
}

public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
}

public void testClusterRestartWhileGrace() throws Exception {
    wipeAllLicenses();

```java
    internalCluster().startNode();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for grace_period");
    assertLicenseActive(true);
}

    public void testClusterRestartWhileExpired() throws Exception {
        wipeAllLicenses();
        internalCluster().startNode();
        ensureGreen();
        assertLicenseActive(true);
        putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
            LicenseService.GRACE_PERIOD_DURATION.getMillis()));
        assertLicenseActive(false);
        logger.info("--> restart node");
        internalCluster().fullRestart();
        ensureYellow();
        logger.info("--> await node for disabled");
        assertLicenseActive(false);
    }

    public void testClusterRestartWithOldSignature() throws Exception {
        assumeFalse("Can't run in a FIPS JVM. We can't generate old licenses since PBEWithSHA1AndDESede is not available", inFipsJvm());
        wipeAllLicenses();
        internalCluster().startNode();
        ensureGreen();
        assertLicenseActive(true);
        putLicense(TestUtils.generateSignedLicenseOldSignature());
        LicensingClient licensingClient = new LicensingClient(client());
        assertThat(licensingClient.prepareGetLicense().get().license().version(),
            equalTo(License.VERSION_START_DATE));
        logger.info("--> restart node");
        internalCluster().fullRestart(); // restart so that license is updated
        ensureYellow();
        logger.info("--> await node for enabled");
        assertLicenseActive(true);
        licensingClient = new LicensingClient(client());
        assertThat(licensingClient.prepareGetLicense().get().license().version(),
            equalToTo(License.VERSION_CURRENT)); //license updated
        internalCluster().fullRestart(); // restart once more and verify updated license is active
        ensureYellow();
    }
```
logger.info("--> await node for enabled");
assertLicenseActive(true);
}

private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.getOperationMode() == operationMode) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}

package org.elasticsearch.license;
import org.elasticsearch.test.ESTestCase;
import java.util.Locale;
import static org.elasticsearch.license.License.OperationMode;
import static org.hamcrest.Matchers.equalTo;

/**
 * Tests @link License.OperationMode for correctness.
 * <p>
 * If you change the behavior of these tests, then it means that licensing changes across the products!
 */
public class LicenseOperationModeTests extends ESTestCase {
    public void testResolveTrial() {
        // assert 1.x BWC
        assertResolve(OperationMode.TRIAL, "nONE", "DEv", "deveLopment");
    }
}
public void testResolveBasic() {
    // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
    assertResolve(OperationMode.BASIC, "bAsIc", "basic");
}

public void testResolveStandard() {
    // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
    assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
}

public void testResolveGold() {
    // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
    assertResolve(OperationMode.GOLD, "SiLvEr", "gOlD", "sil\v\o\r", "gold");
}

public void testResolvePlatinum() {
    // assert 1.x BWC
    assertResolve(OperationMode.PLATINUM, "iNtErNaL");
    // assert expected (2.x+) variant
    assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
}

public void testResolveUnknown() {
    // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
    // See https://github.com/elastic/x-plugins/issues/3371
    String[] types = { "unknown", "fake", "enterprise" };
    for (String type : types) {
        try {
            OperationMode.resolve(type);
        }
        catch (IllegalArgumentException e) {
            assertThat(e.getMessage(), equalTo("unknown type [" + type + "]"));
        }
    }
}

private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}
package org.elasticsearch.license;

import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;

public class LicenseFIPSTests extends AbstractLicenseServiceTestCase {

    public void testFIPSCheckWithAllowedLicense() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("trial", "platinum"),
                TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder()
                .put("xpack.security.enabled", true)
                .put("xpack.security.transport.ssl.enabled", true)
                .put("xpack.security.fips_mode.enabled", randomBoolean())
                .build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testFIPSCheckWithoutAllowedLicense() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "standard"),
                TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder()
.put("xpack.security.enabled", true)
.put("xpack.security.transport.ssl.enabled", true)
.put("xpack.security.fips_mode.enabled", true)
.build();
XPackLicenseState licenseState = new XPackLicenseState(settings);

SetInitialState(null, licenseState, settings);
licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
IllegalStateException e = expectThrows(IllegalStateException.class, () ->
licenseService.registerLicense(request, responseFuture));
assertThat(e.getMessage(),
containsString("Cannot install a [" + newLicense.operationMode() + "] license unless FIPS mode is
disabled"));
licenseService.stop();

settings = Settings.builder()
.put("xpack.security.enabled", true)
.put("xpack.security.transport.ssl.enabled", true)
.put("xpack.security.fips_mode.enabled", false)
.build();
licenseState = new XPackLicenseState(settings);

SetInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;

import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

public class LicensesMetaDataSerializationTests extends ESTestCase {

public void testXContentSerializationOneSignedLicense() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
        getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
}

public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
        getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
    new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
}
RepositoryMetaData repositoryMetaData = new RepositoryMetaData("repo", "fs", Settings.EMPTY);
RepositoriesMetaData repositoriesMetaData = new
RepositoriesMetaData(Collections.singletonList(repositoryMetaData));
final MetaData.Builder metaDataBuilder = MetaData.builder();
if (randomBoolean()) { // random order of insertion
    metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
    metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
} else {
    metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
    metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
}
// serialize metadata
XContentBuilder builder = XContentFactory.jsonBuilder();
Params params = new
ToXContent.MapParams(Collections.singletonMap(MetaData.CONTEXT_MODE_PARAM,
MetaData.CONTEXT_MODE_GATEWAY));
builder.startObject();
builder = metaDataBuilder.build().toXContent(builder, params);
builder.endObject();
// deserialize metadata again
MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
// check that custom metadata still present
assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}  

public void testXContentSerializationOneTrial() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .type(randomBoolean() ? "trial" : "basic")
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    final License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder = licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
        getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(trialLicense));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}
public void testLicenseTombstoneFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
} 

public void testLicenseTombstoneWithUsedTrialFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.field("trial_license", Version.CURRENT.toString());
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
} 

private static LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) throws Exception {
    parser.nextToken(); // consume null
    parser.nextToken(); // consume "licenses"
    LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
    parser.nextToken(); // consume endObject
    assertThat(parser.nextToken(), nullValue());
    return licensesMetaDataFromXContent;
} 

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream()
    ).collect(Collectors.toList()));
} 

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*/
pkg org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

import static org.elasticsearch.common.unit.TimeValue.timeValueHours;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {

    public void testAcknowledgment() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();

        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
                timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                LicensesStatus.VALID, true));
        assertThat(licenseService.getLicense(), not(signedLicense));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

        // try installing a signed license with acknowledgement
        putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
        // ensure license was installed and no acknowledgement message was returned
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
                LicensesStatus.VALID, false));
        verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testRejectUpgradeToProductionWithoutTLS() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();

        License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
    }
}
public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
            .put("xpack.security.enabled", false).build());
    licenseService.start();
    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
            LicensesStatus.VALID, true));
    assertThat(licenseService.getLicense(), not(signedLicense));
    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
    // ensure license was installed and no acknowledgment message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
            LicensesStatus.VALID, false));
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
            .put("xpack.security.enabled", true)
            .put("xpack.security.transport.ssl.enabled", true).build());
    licenseService.start();
    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
            LicensesStatus.VALID, true));
    assertThat(licenseService.getLicense(), not(signedLicense));
    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
    // ensure license was installed and no acknowledgment message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
            LicensesStatus.VALID, false));
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}
private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
    private final boolean expectedAcknowledgement;
    private final LicensesStatus expectedStatus;
    private final boolean expectAckMessages;

    AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
                                      boolean expectAckMessages) {
        this.expectedAcknowledgement = expectedAcknowledgement;
        this.expectedStatus = expectedStatus;
        this.expectAckMessages = expectAckMessages;
    }

    @Override
    public void onResponse(PutLicenseResponse licensesUpdateResponse) {
        assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
        assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
        assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
    }

    @Override
    public void onFailure(Exception throwable) {
        throw new RuntimeException(throwable);
    }
}

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* /
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.nullValue;

public class ExpirationCallbackTests extends ESTestCase {

    public void testPostExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
        TimeValue frequency = TimeValue.timeValueSeconds(1);
NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration.getMillis();
assertThat(post.delay(expiryDate, now),
    equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license expiry
assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
    earliestValidTriggerDelay);
}

public void testPreExpirationDelay() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration.getMillis();
    assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
        earliestValidTriggerDelay);
}

public void testPostExpirationWithNullMax() throws Exception {
    int postExpirySeconds = randomIntBetween(5, 10);
    TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
    TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));
    final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(post.delay(now - postExpiryDuration.millis(), now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));
    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}
public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
        earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
        earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration,
    int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    // bounds
    assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay),
        equalTo(TimeValue.timeValueMillis(0)));
    assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay),
        equalTo(TimeValue.timeValueMillis(0)));
    // in match
    assertThat(expirationCallback.delay(expiryDate, now + randomIntBetween(earliestValidTriggerDelay, latestValidTriggerDelay)),
        equalTo(TimeValue.timeValueMillis(0)));
    // out of bounds
    int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
    assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
        equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and
    after max
    assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
}

public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration,
    int latestValidTriggerDelay, int earliestValidTriggerDelay) {

}
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration;
int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + validTriggerInterval, now + validTriggerInterval), equalTo(now + validTriggerInterval));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval), equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaBeforeEarliestMatch), equalTo(now + deltaBeforeEarliestMatch + expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaBeforeEarliestMatch, now + deltaBeforeEarliestMatch), equalTo(now + deltaBeforeEarliestMatch + expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch), equalTo(-1L));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaAfterLatestMatch, now + deltaAfterLatestMatch), equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {

NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
    super(min, max, frequency);
}

@Override
public void on(License license) {}
}

private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {

NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
    super(min, max, frequency);
}

@Override
public void on(License license) {}
}
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watchers.ResourceWatcherService;
import org.junit.After;
import org.junit.Before;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

public class OperationModeFileWatcherTests extends ESTestCase {

    private ResourceWatcherService watcherService;
    private TestThreadPool threadPool;
    private Path licenseModePath;
    private OperationModeFileWatcher operationModeFileWatcher;
    private AtomicReference<CountDownLatch> onChangeCounter;

    @Before
    public void setup() throws Exception {
        threadPool = new TestThreadPool("license mode file watcher tests");
        Settings settings = Settings.builder()
                .put("resource.reload.interval.high", "10ms")
                .build();
        watcherService = new ResourceWatcherService(settings, threadPool);
        watcherService.start();
        licenseModePath = createTempFile();
        onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
        operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
                        () -> onChangeCounter.get().countDown());
    }

    @After
public void shutdown() throws InterruptedException {
    terminate(threadPool);
    watcherService.stop();
}

public void testInit() throws Exception {
    onChangeCounter.set(new CountDownLatch(2));
    writeMode("gold");
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.init();
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

public void testUpdateModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    writeMode("basic");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.BASIC));
}

public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    Files.delete(licenseModePath);
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
}
operationModeFileWatcher.onFileChanged(licenseModePath);
assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    onChangeCounter.set(new CountDownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.Before;
public class LicenseOperationModeUpdateTests extends ESTestCase {

    private OperationModeFileWatcher operationModeFileWatcher;
    private Path licenseModeFile;
    private ResourceWatcherService resourceWatcherService;

    @Before
    public void init() throws Exception {
        licenseModeFile = createTempFile();
        resourceWatcherService = mock(ResourceWatcherService.class);
        operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile,
                                                                    logger, () -> {});
    }

    public void testLicenseOperationModeUpdate() throws Exception {
        String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
        License license = License.builder()
            .uid("id")
            .expiryDate(0)
            .issueDate(0)
            .issuedTo("elasticsearch")
            .issuer("issuer")
            .type(type)
            .maxNodes(1)
            .build();

        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
        OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
        license.setOperationModeFileWatcher(operationModeFileWatcher);
        verifyZeroInteractions(resourceWatcherService);
        assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    }

    public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
        License license = License.builder()
            .uid("id")
            .expiryDate(0)
            .issueDate(0)
import org.elasticsearch.license.
import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();
        String issueDate = TestUtils.dateMathString("now", now);
        String expiryDate = TestUtils.dateMathString("now+10d/d", now);
        String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
        License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
    }
}

*/

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 */

package org.elasticsearch.license;

import org.elasticsearch.license.
import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();
        String issueDate = TestUtils.dateMathString("now", now);
        String expiryDate = TestUtils.dateMathString("now+10d/d", now);
        String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
        License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
    }
}

*/
assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfTheDay(expiryDate)));
}

public void testLicensesFields() throws Exception {
    LicenseSpec randomLicenseSpec =
    TestUtils.generateRandomLicenseSpec(License.VERSION_START);
    String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
    final License fromSource =
    License.fromSource(new BytesArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)),
    XContentType.JSON);
    TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
}

public void testLicenseRestView() throws Exception {
    long now = System.currentTimeMillis();
    String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
    String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
    String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);

    License license = TestUtils.generateLicenses(new LicenseSpec(validLicenseIssueDate,
    expiredLicenseExpiryDate));
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
    builder.contentType()).v2();

    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertThat(map.get("status"), equalTo("expired"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertThat(map.get("status"), nullValue());

    license = TestUtils.generateLicenses(new LicenseSpec(validLicenseIssueDate,
    validLicenseExpiryDate));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
}
// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());

license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(invalidLicenseIssueDate,
validLicenseExpiryDate));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();

// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("invalid"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType()).v2();
// should have an extra status field, human readable issue_data and no expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("type"), equalTo("basic"));
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), nullValue());
assertThat(map.get("expiry_date_in_millis"), nullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.test.ESTestCase;
import java.util.Arrays;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;

public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(),
                equalTo(feature));
        }
    }

    public void testIsLicenseExpiredException() {
        ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
        assertTrue(LicenseUtils.isLicenseExpiredException(exception));
    }
}
exception = new ElasticsearchSecurityException("msg");
assertFalse(LicenseUtils.isLicenseExpiredException(exception));

*/

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Settings transportClientSettings() {
        // Plugin should be loaded on the transport client as well
    }
}
protected void putLicense(final License license) throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}
@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}
}
latch.await();
}

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.isActive() == active) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}
}

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  *
package org.elasticsearch.license;

import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
                .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartBasicLicense() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
               TimeValue.timeValueHours(24));
        licensingClient.preparePutLicense(license).get();

        assertBusy(() -> {
            GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
            assertEquals("trial", getLicenseResponse.license().type());
        });

        // Testing that you can start a basic license when you have no license
        if (randomBoolean()) {
            licensingClient.prepareDeleteLicense().get();
            assertNull(licensingClient.prepareGetLicense().get().license());
        }

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
               StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
        assertEquals("{"eligible_to_start_basic":true}", body);
    }
}
Request ackRequest = new Request("POST", "/_xpack/license/start_basic");
ackRequest.addParameter("acknowledge", "true");
Response response2 = restClient.performRequest(ackRequest);
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains(""acknowledged":true");
assertTrue(body2.contains(""basic_was_started":true");

assertBusy(() -> {
    GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
    assertEquals("basic", currentLicense.license().type());
});

long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, expirationMillis);

Response response3 = restClient.performRequest(new Request("GET", "/_xpack/license"));
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
assertTrue(body3.contains(""type" : "basic"");
assertFalse(body3.contains("expiry_date");
assertFalse(body3.contains("expiry_date_in_millis");

Response response4 = restClient.performRequest(new Request("GET", "/_xpack/license/basic_status"));
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
equals("\"eligible_to_start_basic\":false \", body4);

ResponseException ex = expectThrows(ResponseException.class,
    () -> restClient.performRequest(new Request("POST", "/_xpack/license/start_basic")));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains(""basic_was_started":false");
assertTrue(body5.contains(""acknowledged":true");
assertTrue(body5.contains(""error_message":"Operation failed: Current license is basic."\n");
}

public void testUnacknowledgedStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();
assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("trial", getLicenseResponse.license().type());
});

Response response2 = getRestClient().performRequest(new Request("POST", "/_xpack/license/start_basic"));
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
    StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains("\"acknowledged\":false"));
assertTrue(body2.contains("\"basic_was_started\":false"));
assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\""));
assertTrue(body2.contains("\"message\":\"This license update requires acknowledgement. To acknowledge the license, " +
    "please read the following messages and call /start_basic again, this time with the
    \"acknowledge=true\"\"\""));
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

import static java.util.Collections.emptyList;
private TestUtils.AssertingLicenseState licenseState;

@Before
public void setup() {
    licenseState = new TestUtils.AssertingLicenseState();
    setInitialState(null, licenseState, Settings.EMPTY);
    licenseService.start();
}

@After
public void teardown() {
    licenseService.stop();
}

public void testNotificationOnNewLicense() throws Exception {
    ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();
    final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
    MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
    ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    assertThat(licenseState.activeUpdates.size(), equalTo(1));
    assertTrue(licenseState.activeUpdates.get(0));
}

public void testNoNotificationOnExistingLicense() throws Exception {
    final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
    MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
    ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
    ClusterState oldState = ClusterState.builder(newState).build();
    ClusterState oldState = ClusterState.builder(oldState).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    assertThat(licenseState.activeUpdates.size(), equalTo(0));
    assertTrue(licenseState.activeUpdates.get(0));
}

public void testSelfGeneratedLicenseGeneration() throws Exception {
    DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
    ClusterState oldState = ClusterState.builder(new ClusterName("a")).nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    ClusterState newOldState = ClusterState.builder(oldState).nodes(discoveryNodes).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
}
verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertEquals/licenseType, licenseMetaData.getLicense().type());
long expiration;
if (licenseType.equals("basic") { 
    expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() +
clock.millis();
}
assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
} }
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.client.Request;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {
    @Override
    protected Settings nodeSettings(int nodeOrdinal) {

    }
return Settings.builder()
    .put(super.nodeSettings(nodeOrdinal))
    .put("node.data", true)
    .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
    .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
}

@override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
}

@override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
}

public void testStartTrial() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    ensureStartingWithBasic();
    RestClient restClient = getRestClient();
    Response response = restClient.performRequest(new Request("GET", "/_xpack/license/trial_status"));
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(200, response.getStatusLine().getStatusCode());
    assertEquals("{"eligible_to_start_trial":true}", body);
    // Test that starting will fail without acknowledgement
    Response response2 = restClient.performRequest(new Request("POST", "/_xpack/license/start_trial"));
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains(""\"trial_was_started\":false""));
    assertTrue(body2.contains(""\"error_message\":\"Operation failed: Needs acknowledgement.\""");
    assertTrue(body2.contains(""\"acknowledged\":false""));
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("basic", getLicenseResponse.license().type());
    });

    String type = randomFrom(LicenseService.VALID_TRIAL_TYPES); 
    Request ackRequest = new Request("POST", "/_xpack/license/start_trial");
    ackRequest.setParameter("acknowledge", "true");
    ackRequest.setParameter("type", type);
    Response response3 = restClient.performRequest(ackRequest);
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertTrue(body3.contains("trial_was_started":true");
assertTrue(body3.contains("type":"" + type + ""));
assertTrue(body3.contains("acknowledged":true");

assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest(new Request("GET", "/_xpack/license/trial_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
equalsTo(
    "{"eligible_to_start_trial":false}, body4);

String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

Request startTrialWhenStartedRequest = new Request("POST", "/_xpack/license/start_trial");
startTrialWhenStartedRequest.addParameter("acknowledge", "true");
startTrialWhenStartedRequest.addParameter("type", secondAttemptType);
ResponseException ex = expectThrows(ResponseException.class, () ->
    restClient.performRequest(startTrialWhenStartedRequest));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("trial_was_started":false");
assertTrue(body5.contains("error_message":"Operation failed: Trial was already activated.");
}

public void testInvalidType() throws Exception {
    ensureStartingWithBasic();

    Request request = new Request("POST", "/_xpack/license/start_trial");
    request.addParameter("type", "basic");
    ResponseException ex = expectThrows(ResponseException.class, () ->
        getRestClient().performRequest(request));
    Response response = ex.getResponse();
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(400, response.getStatusLine().getStatusCode());
    assertTrue(body.contains("type":"illegal_argument_exception");
    assertTrue(body.contains("reason":"Cannot start trial of type [basic]. Valid trial types are ");
}
private void ensureStartingWithBasic() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    if (!"basic".equals(getLicenseResponse.license().type())) {
        licensingClient.preparePostStartBasic().setAcknowledge(true).get();
    }
    assertBusy(() -> {
        GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("basic", postTrialLicenseResponse.license().type());
    });
}

package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.index.DirectoryReader;
import org.apache.lucene.util.Accountable;
import org.apache.lucene.util.RamUsageEstimator;
import org.apache.lucene.util.automaton.Automata;
import org.apache.lucene.util.automaton.MinimizationOperations;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.regex.Regex;
import org.elasticsearch.index.mapper.AllFieldMapper;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import static org.apache.lucene.util.automaton.Operations.subsetOf;

/**
* Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check if permission is
* allowed for a specific field.
* Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine whether or
* not a field is granted access to:
* 1. It has to match the patterns in grantedFieldsArray
* 2. it must not match the patterns in deniedFieldsArray

public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    private static final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%  
        // for each entry, we need two object refs, one for the entry itself  
        // and one for the free space that is due to the fact hash tables can  
        // not be fully loaded  
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 * RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;

    private final long ramBytesUsed;

    /** Constructor that does not enable field-level security: all fields are accepted. */
    public FieldPermissions() {
        this(new FieldPermissionsDefinition(null, null), Automatons.MATCH_ALL);
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules  
    * have precedence over include rules. */
    public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
        this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
    }
/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
 FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton) {
   if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
     // we only accept deterministic automata so that the CharacterRunAutomaton constructor
     // directly wraps the provided automaton
     throw new IllegalArgumentException("Only accepts deterministic automata");
   }
   this.fieldPermissionsDefinition = fieldPermissionsDefinition;
   this.originalAutomaton = permittedFieldsAutomaton;
   this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
   // we cache the result of isTotal since this might be a costly operation
   this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);

   long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;

   for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
     ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
     if (group.getGrantedFields() != null) {
       ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
     }
     if (group.getExcludedFields() != null) {
       ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
     }
   }
   ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
   ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
   this.ramBytesUsed = ramBytesUsed;
 }

/**
 * Return an estimation of the ram bytes used by a \[ @link CharacterRunAutomaton \]
 * that wraps the given automaton.
 */
 private static long runAutomatonRamBytesUsed(Automaton a) {
   return a.getNumStates() * 5; // wild guess, better than 0
 }

 public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition fieldPermissionsDefinition) {
   Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
   assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
   List<Automaton> automatonList =
     groups.stream()
     .map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields()),

g.getExcludedFields()).
    .collect(Collectors.toList());
    return Automatons.unionAndMinimize(automatonList);
}

private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[]
    deniedFields) {
    Automaton grantedFieldsAutomaton;
    if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
        grantedFieldsAutomaton = Automatons.MATCH_ALL;
    } else {
        // an automaton that includes metadata fields, including join fields created by the _parent field such
        // as _parent#type
        Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
            Automata.makeAnyString());
        grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
    }
    Automaton deniedFieldsAutomaton;
    if (deniedFields == null || deniedFields.length == 0) {
        deniedFieldsAutomaton = Automatons.EMPTY;
    } else {
        deniedFieldsAutomaton = Automatons.patterns(deniedFields);
    }
    grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
        Operations.DEFAULT_MAX_DETERMINIZED_STATES);
    deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
        Operations.DEFAULT_MAX_DETERMINIZED_STATES);
    if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
        throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the " +
            "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
            Strings.arrayToCommaDelimitedString(grantedFields));
    }
    if (!containsAllField(grantedFields) && !containsAllField(deniedFields)) {
        // It is not explicitly stated whether _all should be allowed/denied
        // In that case we automatically disable _all, unless all fields would match
        if (Operations.isTotal(grantedFieldsAutomaton) && Operations.isEmpty(deniedFieldsAutomaton)) {
            // all fields are accepted, so using _all is fine
        } else {
            deniedFieldsAutomaton = Operations.union(deniedFieldsAutomaton,
                Automata.makeString(AllFieldMapper.NAME));
        }
    }
    grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton,
private static boolean containsAllField(String[] fields) {
    return fields != null && Arrays.stream(fields).anyMatch(AllFieldMapper.NAME::equals);
}

/**
 * Returns true if this field permission policy allows access to the field and false if not.
 * fieldName can be a wildcard.
 */
public boolean grantsAccessTo(String fieldName) {
    return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

public FieldPermissionsDefinition getFieldPermissionsDefinition() {
    return fieldPermissionsDefinition;
}

/** Return whether field-level security is enabled, ie. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
    return permittedFieldsAutomatonIsTotal == false;
}

/** Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
    if (hasFieldLevelSecurity() == false) {
        return reader;
    }
    return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
    return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissions that = (FieldPermissions) o;

    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?
        fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==

null;
}

@Override
public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}

@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}
}

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 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;

/**
 * A permissions that is based on a general privilege that contains patterns of users that this
 * user can execute a request as
 */
public final class RunAsPermission {

    public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

    private final Privilege privilege;
    private final Predicate<String> predicate;

    RunAsPermission(Privilege privilege) {
        this.privilege = privilege;
        this.predicate = privilege.predicate();
    }

    public Privilege getPrivilege() {
        return privilege;
    }

    /**
     * Checks if this permission grants run as to the specified user
     */

public boolean check(String username) {
    return predicate.test(username);
}
*/

package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;

import static org.elasticsearch.xpack.core.security.SecurityField.setting;

/**
 * A service for managing the caching of `{@link FieldPermissions}` as these may often need to be combined or created and internally they use an `{@link org.apache.lucene.util.automaton.Automaton}`, which can be costly to create once you account for minimization
 */

public final class FieldPermissionsCache {

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissions Cache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissions Cache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissionsCache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissionsCache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
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        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
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                .setMinimumSize(2)
                .build();
    }

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            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

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                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissionsCache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

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                .setMinimumSize(2)
                .build();
    }

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        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L, Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }

    public FieldPermissionsCache(Setting<Settings, FieldPermissionsDefinition, FieldPermissions> cache) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .setMinimumSize(2)
                .build();
    }
FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
    return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
}

public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
    try {
        return cache.computeIfAbsent(fieldPermissionsDefinition,
            (key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));
    } catch (ExecutionException e) {
        throw new ElasticsearchException("unable to compute field permissions", e);
    }
}

FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
    Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
        .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
        .findFirst();
    return allowAllFieldPermissions.orElseGet(() -> {
        final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
            .flatMap(fieldPermission ->
                fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
            .collect(Collectors.toSet());
        final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
        try {
            List<Automaton> automatonList = fieldPermissionsCollection.stream()
                .map(FieldPermissions::getIncludeAutomaton)
                .collect(Collectors.toList());
            return new FieldPermissions(combined, Automatons.unionAndMinimize(automatonList));
        } catch (Exception e) {
            throw new ElasticsearchException("unable to compute field permissions", e);
        }
    });
}
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.transport.TransportRequest;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.Set;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * A permission that is based on privileges for cluster wide actions, with the optional ability to inspect the request object
 */
public abstract class ClusterPermission {
    private final ClusterPrivilege privilege;

    ClusterPermission(ClusterPrivilege privilege) {
        this.privilege = privilege;
    }

    public ClusterPrivilege privilege() {
        return privilege;
    }

    public abstract boolean check(String action, TransportRequest request);

    public abstract List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges();

    /**
     * A permission that is based solely on cluster privileges and does not consider request state
     */
public static class SimpleClusterPermission extends ClusterPermission {

    public static final SimpleClusterPermission NONE = new SimpleClusterPermission(ClusterPrivilege.NONE);

    private final Predicate<String> predicate;

    SimpleClusterPermission(ClusterPrivilege privilege) {
        super(privilege);
        this.predicate = privilege.predicate();
    }

    @Override
    public boolean check(String action, TransportRequest request) {
        return predicate.test(action);
    }

    @Override
    public List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
        return Collections.singletonList(new Tuple<>(super.privilege, null));
    }
}

/**
 * A permission that makes use of both cluster privileges and request inspection
 */
public static class ConditionalClusterPermission extends ClusterPermission {

    private final ConditionalClusterPrivilege conditionalPrivilege;

    public ConditionalClusterPermission(ConditionalClusterPrivilege conditionalPrivilege) {
        super(conditionalPrivilege.getPrivilege());
        this.conditionalPrivilege = conditionalPrivilege;
    }

    @Override
    public boolean check(String action, TransportRequest request) {
        return super.privilege.predicate().test(action) && conditionalPrivilege.getRequestPredicate().test(request);
    }

    @Override
    public List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
        return Collections.singletonList(new Tuple<>(super.privilege, conditionalPrivilege));
    }
}

/**
 * A permission that composes a number of other cluster permissions
 */
public static class CompositeClusterPermission extends ClusterPermission {


private final Collection<ClusterPermission> children;

public CompositeClusterPermission(Collection<ClusterPermission> children) {
    super(buildPrivilege(children));
    this.children = children;
}

private static ClusterPrivilege buildPrivilege(Collection<ClusterPermission> children) {
    final Set<String> names = children.stream()
        .map(ClusterPermission::privilege)
        .map(ClusterPrivilege::name)
        .flatMap(Set::stream)
        .collect(Collectors.toSet());
    return ClusterPrivilege.get(names);
}

@Override
public List<Tuple<ClusterPrivilege, ConditionalClusterPrivilege>> privileges() {
    return children.stream().map(ClusterPermission::privileges).flatMap(List::stream).collect(Collectors.toList());
}

@Override
public boolean check(String action, TransportRequest request) {
    return children.stream().anyMatch(p -> p.check(action, request));
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.Strings;
import java.util.Arrays;
import java.util.Collections;
import java.util.Set;

/**
 * Represents the definition of a [FieldPermissions]. Field permissions are defined as a
 * collections of grant and exclude definitions where the exclude definition must be a subset of
 * the grant definition.
 */
public final class FieldPermissionsDefinition {
    private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

    import org.elasticsearch.common.Strings;
    import java.util.Arrays;
    import java.util.Collections;
    import java.util.Set;

    /**
     * Represents the definition of a [FieldPermissions]. Field permissions are defined as a
     * collections of grant and exclude definitions where the exclude definition must be a subset of
     * the grant definition.
     */
    public final class FieldPermissionsDefinition {
        private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;


public FieldPermissionsDefinition(String[] grant, String[] exclude) {
    this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
}

public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
    this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
}

public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
    return fieldGrantExcludeGroups;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;
    return fieldGrantExcludeGroups != null ?
            fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
            that.fieldGrantExcludeGroups == null;
}

@Override
public int hashCode() {
    return fieldGrantExcludeGroups != null ? fieldGrantExcludeGroups.hashCode() : 0;
}

public static final class FieldGrantExcludeGroup {
    private final String[] grantedFields;
    private final String[] excludedFields;

    public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
        this.grantedFields = grantedFields;
        this.excludedFields = excludedFields;
    }

    public String[] getGrantedFields() {
        return grantedFields;
    }

    public String[] getExcludedFields() {
        return excludedFields;
    }

    @Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;

    if (!Arrays.equals(grantedFields, that.grantedFields)) return false;
    return Arrays.equals(excludedFields, that.excludedFields);
}

@Override
public int hashCode() {
    int result = Arrays.hashCode(grantedFields);
    result = 31 * result + Arrays.hashCode(excludedFields);
    return result;
}

@Override
public String toString() {
    return getClass().getSimpleName() + "\ngrant=" + Strings.arrayToCommaDelimitedString(grantedFields) + "; exclude=" + Strings.arrayToCommaDelimitedString(excludedFields) + "]";
}
*/

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */

package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.ConditionalClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.ArrayList;
import java.util.Arrays;
```java
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

public final class Role {

    public static final Role EMPTY = Role.builder("__empty").build();

    private final String[] names;
    private final ClusterPermission cluster;
    private final IndicesPermission indices;
    private final ApplicationPermission application;
    private final RunAsPermission runAs;

    Role(String[] names, ClusterPermission cluster, IndicesPermission indices, ApplicationPermission application,
         RunAsPermission runAs) {
        this.names = names;
        this.cluster = Objects.requireNonNull(cluster);
        this.indices = Objects.requireNonNull(indices);
        this.application = Objects.requireNonNull(application);
        this.runAs = Objects.requireNonNull(runAs);
    }

    public String[] names() {
        return names;
    }

    public ClusterPermission cluster() {
        return cluster;
    }

    public IndicesPermission indices() {
        return indices;
    }

    public ApplicationPermission application() {
        return application;
    }

    public RunAsPermission runAs() {
        return runAs;
    }

    public static Builder builder(String... names) {
        return new Builder(names, null);
    }
}
```
public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(names, fieldPermissionsCache);
}

public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
 * specified action with the requested indices/aliases. At the same time if field and/or document level security
 * is configured for any group also the allowed fields and role queries are resolved.
 */
public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData metaData,
    FieldPermissionsCache fieldPermissionsCache) {
    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
        action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
    );

    // At least one role / indices permission set need to match with all the requested indices/aliases:
    boolean granted = true;
    for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
        if (!entry.getValue().isGranted()) {
            granted = false;
            break;
        }
    }
    return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
    private ClusterPermission cluster = ClusterPermission.SimpleClusterPermission.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;
    private List<IndicesPermission.Group> groups = new ArrayList<>();
    private FieldPermissionsCache fieldPermissionsCache = null;
    private List<Tuple<ApplicationPrivilege, Set<String>>> applicationPrivs = new ArrayList<>();

    private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
        this.names = names;
        this.fieldPermissionsCache = fieldPermissionsCache;
    }

    private Builder(RoleDescriptor rd, Nullable FieldPermissionsCache fieldPermissionsCache) {
        this.names = new String[] { rd.getName() };
    }

}
this.fieldPermissionsCache = fieldPermissionsCache;
cluster(Sets.newHashSet(rd.getClusterPrivileges()), Arrays.asList(rd.getConditionalClusterPrivileges()));
groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));

final RoleDescriptor.ApplicationResourcePrivileges[] applicationPrivileges = rd.getApplicationPrivileges();
for (int i = 0; i < applicationPrivileges.length; i++) {
    applicationPrvs.add(convertApplicationPrivilege(rd.getName(), i, applicationPrivileges[i]));
}

String[] rdRunAs = rd.getRunAs();
if (rdRunAs != null && rdRunAs.length > 0) {
    this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
}

public Builder cluster(Set<String> privilegeNames, Iterable<ConditionalClusterPrivilege> conditionalClusterPrivileges) {
    List<ClusterPermission> clusterPermissions = new ArrayList<>();
    if (privilegeNames.isEmpty() == false) {
        clusterPermissions.add(new ClusterPermission.SimpleClusterPermission(ClusterPrivilege.get(privilegeNames)));
    }
    for (ConditionalClusterPrivilege ccp : conditionalClusterPrivileges) {
        clusterPermissions.add(new ClusterPermission.ConditionalClusterPermission(ccp));
    }
    if (clusterPermissions.isEmpty()) {
        this.cluster = ClusterPermission.SimpleClusterPermission.NONE;
    } else if (clusterPermissions.size() == 1) {
        this.cluster = clusterPermissions.get(0);
    } else {
        this.cluster = new ClusterPermission.CompositeClusterPermission(clusterPermissions);
    }
    return this;
}

/**
 * @deprecated Use {link #cluster(Set, Iterable)}
 */
@Deprecated
public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission.SimpleClusterPermission(privilege);
    return this;
}

public Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
}
public Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
}

public Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
}

public Builder addApplicationPrivilege(ApplicationPrivilege privilege, Set<String> resources) {
    applicationPrivs.add(new Tuple<>(privilege, resources));
    return this;
}

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
    new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    final ApplicationPermission applicationPermission
    = applicationPrivs.isEmpty() ? ApplicationPermission.NONE : new
    ApplicationPermission(applicationPrivs);
    return new Role(names, cluster, indices, applicationPermission, runAs);
}

static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[] indicesPrivileges,
    @Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
        final FieldPermissions fieldPermissions;
        if (fieldPermissionsCache != null) {
            fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(),
            privilege.getDeniedFields());
        } else {
            fieldPermissions = new FieldPermissions(
                new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
        }
        final Set<BytesReference> query = privilege.getQuery() == null ? null :
        Collections.singleton(privilege.getQuery());
        list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
        fieldPermissions,
        query,
        privilege.getIndices()));
    }
    return list;
static Tuple<ApplicationPrivilege, Set<String>> convertApplicationPrivilege(String role, int index, RoleDescriptor.ApplicationResourcePrivileges arp) {
    return new Tuple<>(
        new ApplicationPrivilege(arp.getApplication(), Sets.newHashSet(arp.getPrivileges()),
            Sets.newHashSet(arp.getResources())),
        Sets.newHashSet(arp.getResources()));
    }

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDeterminizeException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.IndexMetaData;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;
/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */

public final class IndicesPermission implements Iterable<IndicesPermission.Group> {

    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;

    private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new ConcurrentHashMap<>();

    private final Group[] groups;

    public IndicesPermission(Group... groups) {
        this.groups = groups;
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }

    static Predicate<String> indexMatcher(List<String> indices) {
        try {
            return Automatons.predicate(indices);
        } catch (TooComplexToDetermineException e) {
            Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton \[\] is too complex", indices);
            String description = Strings.collectionToCommaDelimitedString(indices);
            if (description.length() > 80) {
                description = Strings.cleanTruncate(description, 80) + "...";
            }
            throw new ElasticsearchSecurityException("The set of permitted index patterns \[\] is too complex to evaluate", e, description);
        };
    }

    @Override
    public Iterator<Group> iterator() {
        return Arrays.asList(groups).iterator();
    }
}
public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission
 * has the privilege for executing the given action on.
 */
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}

/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are not
 * checked on the coordinating node), and properly authorized later at the shard level checking their indices as well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}

public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automatons.EMPTY : Automatons.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
 */
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String> requestedIndicesOrAliases,
    MetaData metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group
SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
Map<String, Boolean> grantedBuilder = new HashMap<>();

for (String indexOrAlias : requestedIndicesOrAliases) {
    boolean granted = false;
    Set<String> concreteIndices = new HashSet<>();
    AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
    if (aliasOrIndex != null) {
        for (IndexMetaData indexMetaData: aliasOrIndex.getIndices()) {
            concreteIndices.add(indexMetaData.getIndex().getName());
        }
    }
    for (Group group : groups) {
        if (group.check(action, indexOrAlias)) {
            granted = true;
            for (String index : concreteIndices) {
                Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) -> new HashSet<>());
                fieldPermissions.add(group.getFieldPermissions());
                fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
                DocumentLevelPermissions permissions = roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
                roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
                if (group.hasQuery()) {
                    permissions.addAll(group.getQuery());
                } else {
                    // if more than one permission matches for a concrete index here and if
                    // a single permission doesn't have a role query then DLS will not be
                    // applied even when other permissions do have a role query
                    permissions.setAllowAll(true);
                }
            }
        }
    }
    if (concreteIndices.isEmpty()) {
        grantedBuilder.put(indexOrAlias, granted);
    } else {
        grantedBuilder.put(indexOrAlias, granted);
        for (String concreteIndex : concreteIndices) {
            grantedBuilder.put(concreteIndex, granted);
        }
    }
}
Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    } else {
        roleQueries = null;
    }

    final FieldPermissions fieldPermissions;
    final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
    if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
        fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
            fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
    } else {
        fieldPermissions = FieldPermissions.DEFAULT;
    }

    indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
            fieldPermissions, roleQueries));
}
return unmodifiableMap(indexPermissions);
}

public static class Group {
    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
    private final String[] indices;
    private final Predicate<String> indexNameMatcher;

    public FieldPermissions getFieldPermissions() {
        return fieldPermissions;
    }

    private final FieldPermissions fieldPermissions;
    private final Set<BytesReference> query;

    public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference>
            query, String... indices) {
        assert indices.length != 0;
        this.privilege = privilege;
        this.actionMatcher = privilege.predicate();
        this.indices = indices;
        this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
        this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
        this.query = query;
    }
public IndexPrivilege privilege() {
    return privilege;
}

public String[] indices() {
    return indices;
}

@Nullable
public Set<BytesReference> getQuery() {
    return query;
}

private boolean check(String action) {
    return actionMatcher.test(action);
}

private boolean check(String action, String index) {
    assert index != null;
    return check(action) && indexNameMatcher.test(index);
}

boolean hasQuery() {
    return query != null;
}

private static class DocumentLevelPermissions {

    private Set<BytesReference> queries = null;
    private boolean allowAll = false;

    private void addAll(Set<BytesReference> query) {
        if (allowAll == false) {
            if (queries == null) {
                queries = new HashSet<>();
            }
            queries.addAll(query);
        }
    }

    private boolean isAllowAll() {
        return allowAll;
    }

    private void setAllowAll(boolean allowAll) {
        this.allowAll = allowAll;
    }

}
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.Logger;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.Operations;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.privilege.ApplicationPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Predicate;
import java.util.stream.Collectors;

/**
 * A permission that is based on privileges for application (non elasticsearch) capabilities
 */
public final class ApplicationPermission {

    public static final ApplicationPermission NONE = new ApplicationPermission(Collections.emptyList());

    private final Logger logger;
    private final List<PermissionEntry> permissions;

    /**
     * @param privilegesAndResources A list of (privilege, resources). Each element in the { @link List } is a { @link Tuple }
     * containing
     * a single { @link ApplicationPrivilege } and the { @link Set } of resources to which that
     * privilege is
     * applied. The resources are treated as a wildcard { @link Automatons#pattern }.
     */
    ApplicationPermission(List<Tuple<ApplicationPrivilege, Set<String>>> privilegesAndResources) {
        this.logger = LogManager.getLogger(getClass());
        this.permissions = privilegesAndResources.stream()
                .map(t -> new PermissionEntry(t.getA(), t.getB(), logger))
                .collect(Collectors.toList());
    }

    public void enablePrivilege(String privilegeId) {
        this.logger.info("Enabling privilege " + privilegeId);
        boolean enabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.setEnabled(true);
                enabled = true;
                break;
            }
        }
        if (!enabled) {
            this.logger.error("Unable to find permission " + privilegeId);
        }
    }

    public void disablePrivilege(String privilegeId) {
        this.logger.info("Disabling privilege " + privilegeId);
        boolean disabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.setEnabled(false);
                disabled = true;
                break;
            }
        }
        if (!disabled) {
            this.logger.error("Unable to find permission " + privilegeId);
        }
    }

    public void enableResource(String privilegeId, String... resources) {
        this.logger.info("Enabling resource " + Arrays.toString(resources) + " for privilege " + privilegeId);
        boolean enabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.enablePermission(resources);
                enabled = true;
                break;
            }
        }
        if (!enabled) {
            this.logger.error("Unable to find privilege " + privilegeId);
        }
    }

    public void disableResource(String privilegeId, String... resources) {
        this.logger.info("Disabling resource " + Arrays.toString(resources) + " for privilege " + privilegeId);
        boolean disabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.disablePermission(resources);
                disabled = true;
                break;
            }
        }
        if (!disabled) {
            this.logger.error("Unable to find privilege " + privilegeId);
        }
    }

    public void enableStringResource(String privilegeId, String... resources) {
        this.logger.info("Enabling string resource " + Arrays.toString(resources) + " for privilege " + privilegeId);
        boolean enabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.enableStringPermission(resources);
                enabled = true;
                break;
            }
        }
        if (!enabled) {
            this.logger.error("Unable to find privilege " + privilegeId);
        }
    }

    public void disableStringResource(String privilegeId, String... resources) {
        this.logger.info("Disabling string resource " + Arrays.toString(resources) + " for privilege " + privilegeId);
        boolean disabled = false;
        for (PermissionEntry permissionEntry : this.permissions) {
            if (permissionEntry.privilege().getId().equals(privilegeId)) {
                permissionEntry.disableStringPermission(resources);
                disabled = true;
                break;
            }
        }
        if (!disabled) {
            this.logger.error("Unable to find privilege " + privilegeId);
        }
    }

    private static class PermissionEntry {
        private final ApplicationPrivilege privilege;
        private final Set<String> resources;
        private boolean enabled = false;

        PermissionEntry(ApplicationPrivilege privilege, Set<String> resources, Logger logger) {
            this.privilege = privilege;
            this.resources = resources;
        }

        public void enablePermission(String... resources) {
            this.enabled = true;
            this.resources.addAll(Arrays.asList(resources));
            logger.info("Enabling permission " + Arrays.toString(resources) + " for privilege " + privilege.getId());
        }

        public void disablePermission(String... resources) {
            this.enabled = false;
            this.resources.removeAll(Arrays.asList(resources));
            logger.info("Disabling permission " + Arrays.toString(resources) + " for privilege " + privilege.getId());
        }

        public void enableStringPermission(String... resources) {
            this.enabled = true;
            this.resources.addAll(Arrays.asList(resources));
            logger.info("Enabling string permission " + Arrays.toString(resources) + " for privilege " + privilege.getId());
        }

        public void disableStringPermission(String... resources) {
            this.enabled = false;
            this.resources.removeAll(Arrays.asList(resources));
            logger.info("Disabling string permission " + Arrays.toString(resources) + " for privilege " + privilege.getId());
        }
    }
}
Map<ApplicationPrivilege, PermissionEntry> permissionsByPrivilege = new HashMap<>();
privilegesAndResources.forEach(tup -> permissionsByPrivilege.compute(tup.v1(), (appPriv, existing) -> {
    final Set<String> resourceNames = tup.v2();
    final Automaton patterns = Automatons.patterns(resourceNames);
    if (existing == null) {
        return new PermissionEntry(appPriv, resourceNames, patterns);
    } else {
        return new PermissionEntry(appPriv, Sets.union(existing.resourceNames, resourceNames),
                                  Automatons.unionAndMinimize(Arrays.asList(existing.resourceAutomaton, patterns)));
    }
});
this.permissions = Collections.unmodifiableList(new ArrayList<>(permissionsByPrivilege.values()));

/**
 * Determines whether this permission grants the specified privilege on the given resource.
 * <p>
 * An [ @link ApplicationPermission ] consists of a sequence of permission entries, where each entry contains a
 * single [ @link ApplicationPrivilege ] and one or more resource patterns.
 * </p>
 * <p>
 * This method returns [ @code true ] if, one or more of those entries meet the following criteria
 * </p>
 * <ul>
 * <li>The entry's application, when interpreted as an [ @link Automaton ] [ @link Automatons#pattern(String) pattern] matches the
 * application given in the argument (interpreted as a raw string)
 * </li>
 * <li>The [ @link ApplicationPrivilege#getAutomaton automaton that defines the entry's actions] entirely covers the
 * automaton given in the argument (that is, the argument is a subset of the entry's automaton)
 * </li>
 * <li>The entry's resources, when interpreted as an [ @link Automaton ] [ @link Automatons#patterns(String...) set of patterns] entirely
 * covers the resource given in the argument (also interpreted as an [ @link Automaton ] [ @link Automatons#pattern(String) pattern].
 * </li>
 * </ul>
 *
 * public boolean grants(ApplicationPrivilege other, String resource) {
 *     Automaton resourceAutomaton = Automatons.patterns(resource);
 *     final boolean matched = permissions.stream().anyMatch(e -> e.grants(other, resourceAutomaton));
 *     logger.trace("Permission [{}] {} grant [{} , {}]", this, matched ? "does" : "does not", other, resource);
 *     return matched;
 * }
 */

@Override
public String toString() {
    return getClass().getSimpleName() + "\{privileges=" + permissions + "\}";
}

public Set<String> getApplicationNames() {
    return permissions.stream()
        .map(e -> e.privilege.getApplication())
        .collect(Collectors.toSet());
}

public Set<ApplicationPrivilege> getPrivileges(String application) {
    return permissions.stream()
        .filter(e -> application.equals(e.privilege.getApplication()))
        .map(e -> e.privilege)
        .collect(Collectors.toSet());
}

/**
 * Returns a set of resource patterns that are permitted for the provided privilege.
 * The returned set may include patterns that overlap (e.g. "object/" and "object/1") and may
 * also include patterns that are defined again a more permissive privilege.
 * e.g. If a permission grants
 * <ul>
 *     <li>"my-app", "read", [ "user/*" ]</li>
 *     <li>"my-app", "all", [ "user/kimchy", "config/*" ]</li>
 * </ul>
 * Then <code>getResourcePatterns( myAppRead )</code> would return <code>"user/*", "user/kimchy", "config/*"</code>.
 */
public Set<String> getResourcePatterns(ApplicationPrivilege privilege) {
    return permissions.stream()
        .filter(e -> e.matchesPrivilege(privilege))
        .map(e -> e.resourceNames)
        .flatMap(Set::stream)
        .collect(Collectors.toSet());
}

private static class PermissionEntry {
    private final ApplicationPrivilege privilege;
    private final Predicate<String> application;
    private final Set<String> resourceNames;
    private final Automaton resourceAutomaton;

    private PermissionEntry(ApplicationPrivilege privilege, Set<String> resourceNames, Automaton resourceAutomaton) {
        this.privilege = privilege;
        this.application = Automatons.predicate(privilege.getApplication());
        this.resourceNames = resourceNames;
    }
}
this.resourceAutomaton = resourceAutomaton;
}

private boolean grants(ApplicationPrivilege other, Automaton resource) {
    return matchesPrivilege(other) && Operations.subsetOf(resource, this.resourceAutomaton);
}

private boolean matchesPrivilege(ApplicationPrivilege other) {
    if (this.privilege.equals(other)) {
        return true;
    }
    if (this.application.test(other.getApplication()) == false) {
        return false;
    }
    if (Operations.isTotal(privilege.getAutomaton())) {
        return true;
    }
    return Operations.isEmpty(privilege.getAutomaton()) == false
    && Operations.isEmpty(other.getAutomaton()) == false
    && Operations.subsetOf(other.getAutomaton(), privilege.getAutomaton());
}

@Override
public String toString() {
    return privilege.toString() + "::" + resourceNames;
}
}

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 * /
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {

    public GetLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }

    public String getLicenseDefinition() {
        return licenseDefinition;
    }

    public void setAcknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

}
public boolean isAcknowledge() {
    return acknowledge;
}
*/

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*/

package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.protocol.xpack.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class PutLicenseResponse extends AcknowledgedResponse {
    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new
    ConstructingObjectParser<
    "put_license_response", true, (a, v) -> {
        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
        Map<String, String[]>>) a[2];
        if (acknowledgements == null) {
            return new PutLicenseResponse(acknowledged, licensesStatus);
        } else {
            return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
            acknowledgements.v2());
    }*/

    public static PutLicenseResponse fromParsedResponse(XContentParser parser) {
        XContentParser.Token token;
        String fieldName = parser.currentName();
        String fieldAlias = parser.currentField();
        XContentParser.Token token;
        boolean acknowledged = false;
        LicensesStatus licensesStatus = null;
        @SuppressWarnings("unchecked") Map<String, Map<String, String[]>> acknowledgements = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            switch (token) {
                case FIELD_NAME:
                    fieldName = parser.currentName();
                    break;
                case FIELD_ALIAS:
                    fieldAlias = parser.currentField();
                    break;
                case VALUE_TRUE:
                    acknowledged = true;
                    break;
                case VALUE_FALSE:
                    acknowledged = false;
                    break;
                case VALUE_STRING:
                    licensesStatus = LicensesStatus.fromString(parser.text());
                    break;
                case VALUE_NULL:
                    acknowledged = false;
                    break;
                case VALUE_NULL:
                    return null;
                case VALUE_MAP:
                    Map<String, String[]> fieldMap = parser.map();
                    if (acknowledgements == null) {
                        acknowledgements = new HashMap<>();
                    }
                    acknowledgements.put(fieldAlias, new HashMap<>());
                    for (Map.Entry<String, String[]> entry : fieldMap.entrySet()) {
                        acknowledgements.get(fieldAlias).put(entry.getKey(), entry.getValue());
                    }
                    break;
                default:
                    throw new XContentParseException("unknown field ", parser.currentFieldName(),
                    parser.currentField(), parser.currentLocation());
            }
        }
        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements);
    }
}

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class PutLicenseResponse extends AcknowledgedResponse {
    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new
    ConstructingObjectParser<
    "put_license_response", true, (a, v) -> {
        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
        Map<String, String[]>>) a[2];
        if (acknowledgements == null) {
            return new PutLicenseResponse(acknowledged, licensesStatus);
        } else {
            return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
            acknowledgements.v2());
    }*/

    public static PutLicenseResponse fromParsedResponse(XContentParser parser) {
        XContentParser.Token token;
        String fieldName = parser.currentName();
        String fieldAlias = parser.currentField();
        XContentParser.Token token;
        boolean acknowledged = false;
        LicensesStatus licensesStatus = null;
        @SuppressWarnings("unchecked") Map<String, Map<String, String[]>> acknowledgements = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            switch (token) {
                case FIELD_NAME:
                    fieldName = parser.currentName();
                    break;
                case FIELD_ALIAS:
                    fieldAlias = parser.currentField();
                    break;
                case VALUE_TRUE:
                    acknowledged = true;
                    break;
                case VALUE_FALSE:
                    acknowledged = false;
                    break;
                case VALUE_STRING:
                    licensesStatus = LicensesStatus.fromString(parser.text());
                    break;
                case VALUE_NULL:
                    acknowledged = false;
                    break;
                case VALUE_NULL:
                    return null;
                case VALUE_MAP:
                    Map<String, String[]> fieldMap = parser.map();
                    if (acknowledgements == null) {
                        acknowledgements = new HashMap<>();
                    }
                    acknowledgements.put(fieldAlias, new HashMap<>());
                    for (Map.Entry<String, String[]> entry : fieldMap.entrySet()) {
                        acknowledgements.get(fieldAlias).put(entry.getKey(), entry.getValue());
                    }
                    break;
                default:
                    throw new XContentParseException("unknown field ", parser.currentFieldName(),
                    parser.currentField(), parser.currentLocation());
            }
        }
        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements);
    }
}
static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareString(constructorArg(), new ParseField("license_status"));
    PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        XContentParser.Token token;
        String currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            } else {
                if (currentFieldName == null) {
                    throw new XContentParseException(parser.getTokenLocation(), "expected message header or acknowledgement");
                }
                if (!"message".equals(currentFieldName)) {
                    if (token != XContentParser.Token.VALUE_STRING) {
                        throw new XContentParseException(parser.getTokenLocation(), "unexpected message header type");
                    }
                    message = parser.text();
                } else {
                    if (token != XContentParser.Token.START_ARRAY) {
                        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
                    }
                    List<String> acknowledgeMessagesList = new ArrayList<>();
                    while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
                        if (token != XContentParser.Token.VALUE_STRING) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement text");
                        }
                        acknowledgeMessagesList.add(parser.text());
                    }
                    acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
                }
            }
        }
        return new Tuple<>(message, acknowledgeMessages);
    },
    new ParseField("acknowledge"));
}
private LicensesStatus status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeHeader;

public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
Map<String, String[]> acknowledgeMessages) {
    super(acknowledged);
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = LicensesStatus.fromId(in.readVInt());
    acknowledgeHeader = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}
```java
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeVInt(status.id());
    out.writeOptionalString(acknowledgeHeader);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    builder.field("license_status", status.toString());
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    if (!super.equals(o)) return false;
    if (!acknowledgeMessages.isEmpty()) {
        if (acknowledgeMessages.isEmpty()) {
            return equals(o);
        }
    }
    return true;
}
```
PutLicenseResponse that = (PutLicenseResponse) o;

return status == that.status &&
        ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
        Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
            acknowledgeHeader);
}

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*/
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionResponse;

public class GetLicenseResponse extends ActionResponse {

    private String license;

    GetLicenseResponse() {
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public String getLicenseDefinition() {
        return license;
    }

    }

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*/
package org.elasticsearch.protocol.xpack.license;

import java.io.IOException;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus implements Writeable {
    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(label);
    }

    public static LicenseStatus readFrom(StreamInput in) throws IOException {
        return fromString(in.readString());
    }

    public static LicenseStatus fromString(String value) {
        switch (value) {
        case "active":
            return ACTIVE;
        case "invalid":
            return INVALID;
        case "expired":
            return EXPIRED;
        default:
            throw new IllegalArgumentException("unknown license status [" + value + "]");
        }
    }

    /*
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     */
package org.elasticsearch.protocol.xpack.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

package org.elasticsearch.protocol.xpack.license;

import java.util.Locale;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;
    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
throw new IllegalStateException("no valid LicensesStatus for id=" + id);

public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {
    switch (value) {
    case "valid":
        return VALID;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown licenses status [" + value + "]");
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
AcknowledgedResponse,
DeleteLicenseRequestBuilder> {

    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    /**
     * Creates new get licenses request builder
     *
     *
     * @param client elasticsearch client
     */

public class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final Runnable onChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService, Path licenseModePath,
                                     Logger logger, Runnable onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        thisonChange = onChange;
    }

    @Override
    public void onFileChange(Path file, ParameterizedMessage event) {
        try {
            // Read the operation mode from the file
            // Do something with the currentOperationMode
        } catch (IOException e) {
            // Handle the exception
        }
    }
}

/*
 * File based watcher for license (@link OperationMode)
 * Watches for changes in <code>licenseModePath</code>, use
 * (@link #getCurrentOperationMode) to access the latest mode
 * In case of failure to read a valid operation mode from <code>licenseModePath</code>,
 * the operation mode will default to PLATINUM
 */
this.onChange = onChange;
}

public void init() {
    if (initialized.compareAndSet(false, true)) {
        final FileWatcher watcher = new FileWatcher(licenseModePath);
        watcher.addListener(this);
        try {
            resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
            if (Files.exists(licenseModePath)) {
                onChange(licenseModePath);
            }
        } catch (IOException e) {
            logger.error("couldn't initialize watching license mode file", e);
        }
    }
}

/**
 * Returns the current operation mode based on license mode file.
 * Defaults to @link OperationMode#PLATINUM
 */
public OperationMode getCurrentOperationMode() {
    return currentOperationMode;
}

@Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileChanged(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        onChange(file);
    }
}
OperationMode newOperationMode = defaultOperationMode;
try {
    if (Files.exists(licenseModePath)
        && Files.isReadable(licenseModePath)) {
        final byte[] content;
        try {
            content = Files.readAllBytes(licenseModePath);
        } catch (IOException e) {
            logger.error(
                (Supplier<?>) () -> new ParameterizedMessage(
                    "couldn't read operation mode from [{}]", licenseModePath.toAbsolutePath()), e);
            return;
        }
        // this UTF-8 conversion is much pickier than java String
        final String operationMode = new BytesRef(content).utf8ToString();
        try {
            newOperationMode = OperationMode.resolve(operationMode);
        } catch (IllegalArgumentException e) {
            logger.error(
                (Supplier<?>) () -> new ParameterizedMessage(
                    "invalid operation mode in [{}]", licenseModePath.toAbsolutePath()), e);
            return;
        }
    }
} finally {
    // set this after the fact to prevent that we are jumping back and forth first setting to default and then
    // reading the
    // actual op mode resetting it.
    this.currentOperationMode = newOperationMode;
    onChange.run();
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestHandler;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;
import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;

public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;
    private final boolean isTransportClient;
    private final boolean isTribeNode;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
                                                      LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
                                                      LicensesMetaData::readDiffFrom));
        return entries;
    }

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedXContentRegistry.Entry> getNamedXContent() {
        List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
        // Metadata
        entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class, new
                                                      ParseField(LicensesMetaData.TYPE),
                                                      LicensesMetaData::fromXContent));
return entries;
}

public Licensing(Settings settings) {
    this.settings = settings;
    isTransportClient = transportClientMode(settings);
    isTribeNode = isTribeNode(settings);
}

@Override
public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
    if (isTribeNode) {
        return Collections.singletonList(new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class));
    }
    return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
                         new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class),
                         new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
                         new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
                         new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class),
                         new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
                         new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));
}

@Override
public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings clusterSettings,
                                           IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver indexNameExpressionResolver,
                                           Supplier<DiscoveryNodes> nodesInCluster) {
    List<RestHandler> handlers = new ArrayList<>();
    handlers.add(new RestGetLicenseAction(settings, restController));
    if (false == isTribeNode) {
        handlers.add(new RestPutLicenseAction(settings, restController));
        handlers.add(new RestDeleteLicenseAction(settings, restController));
        handlers.add(new RestGetTrialStatus(settings, restController));
        handlers.add(new RestGetBasicStatus(settings, restController));
        handlers.add(new RestPostStartTrialLicense(settings, restController));
        handlers.add(new RestPostStartBasicLicense(settings, restController));
    }
    return handlers;
}

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest,
    PostStartBasicResponse, PostStartBasicRequestBuilder> {
    PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {
        super(client, action, new PostStartBasicRequest());
    }

    public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

package org.elasticsearch.license;

import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.elasticsearch.license.CryptUtils.decryptV3Format;
import static org.elasticsearch.license.CryptUtils.decrypt;

class SelfGeneratedLicense {

    public static License create(License.Builder specBuilder, DiscoveryNodes currentNodes) {
        return create(specBuilder, LicenseUtils.compatibleLicenseVersion(currentNodes));
    }

    public static License create(License.Builder specBuilder, int version) {
        License spec = specBuilder
            .issuer("elasticsearch")
            .version(version)
            .build();
        final String signature;
        try {
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            spec.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            byte[] encrypt;
            if (version < License.VERSION_CRYPTO_ALGORITHMS) {
                encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            } else {
                encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            }
            byte[] bytes = new byte[4 + 4 + encrypt.length];
            ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
            // Set -version in signature
            byteBuffer.putInt(-version)
                .putInt(encrypt.length)
                .put(encrypt);
            signature = Base64.getEncoder().encodeToString(bytes);
        } catch (IOException e) {
            throw new IllegalStateException(e);
        }
        return License.builder().fromLicenseSpec(spec, signature).build();
    }

    public static boolean verify(final License license) {
        try {
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
            int version = byteBuffer.getInt();
            int contentLen = byteBuffer.getInt();
            byte[] content = new byte[contentLen];
            byteBuffer.get(content);
        } catch (IOException e) {
            throw new IllegalStateException(e);
        }
        return License.builder().fromLicenseSpec(license).build();
    }
}
final License expectedLicense;
// Version in signature is -version, so check for -(version) < 4
byte[] decryptedContent = (-version < License.VERSION_CRYPTO_ALGORITHMS) ?
decryptV3Format(content) : decrypt(content);
// EMPTY is safe here because we don't call namedObject
try (XContentParser parser = XContentFactory.xContent(XContentType.JSON)
    .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
    decryptedContent)) {
    parser.nextToken();
    expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
        license.signature()).version(-version).build();
}
return license.equals(expectedLicense);
} catch (IOException e) {
    throw new IllegalStateException(e);
}
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}

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 */
package org.elasticsearch.license;

import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalBlockSizeException;
import javax.crypto.NoSuchPaddingException;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.PBEKeySpec;
import javax.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.GeneralSecurityException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.NoSuchAlgorithmException;
import java.security.InvalidKeyException;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;

public class CryptUtils {
    // SALT must be at least 128bits for FIPS 140-2 compliance
    private static final byte[] SALT = {
        (byte) 0x74, (byte) 0x68, (byte) 0x69, (byte) 0x73,
        (byte) 0x69, (byte) 0x73, (byte) 0x74, (byte) 0x68,
        (byte) 0x65, (byte) 0x73, (byte) 0x61, (byte) 0x6C,
        (byte) 0x74, (byte) 0x77, (byte) 0x65, (byte) 0x75
    };
    private static final String KEY_ALGORITHM = "RSA";
    private static final char[] DEFAULT_PASS_PHRASE = "elasticsearch-license".toCharArray();
    private static final String KDF_ALGORITHM = "PBKDF2WithHmacSHA512";
    private static final int KDF_ITERATION_COUNT = 10000;
    private static final String CIPHER_ALGORITHM = "AES";
    // This can be changed to 256 once Java 9 is the minimum version
    // http://www.oracle.com/technetwork/java/javase/terms/readme/jdk9-readme-3852447.html#jce
    private static final int ENCRYPTION_KEY_LENGTH = 128;
    private static final SecureRandom RANDOM = new SecureRandom();

    /**
     * Read encrypted private key file content with default pass phrase
     */
    public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
        return readEncryptedPrivateKey(fileContents, DEFAULT_PASS_PHRASE, false);
    }

    /**
     * Returns encrypted private key file content with default pass phrase
     */
    public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
        return writeEncryptedPrivateKey(privateKey, DEFAULT_PASS_PHRASE);
    }

    /**
     * Read encrypted private key file content with provided <code>passPhrase</code>
     */
    public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase, boolean preV4) {
        byte[] keyBytes = preV4 ? decryptV3Format(fileContents) : decrypt(fileContents, passPhrase);
        PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(keyBytes);
        try {
            return KeyFactory.getInstance(KEY_ALGORITHM).generatePrivate(privateKeySpec);
        } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
            throw new IllegalStateException(e);
        }
    }
}
/**
 * Read public key file content
 */
public static PublicKey readPublicKey(byte[] fileContents) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(fileContents);
    try {
        return KeyFactory.getInstance(CryptUtils.KEY_ALGORITHM).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Returns encrypted public key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), DEFAULT_PASS_PHRASE);
}

/**
 * Returns encrypted private key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {
    PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] encrypt(byte[] data) {
    return encrypt(data, DEFAULT_PASS_PHRASE);
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
static byte[] decrypt(byte[] encryptedData) {
    return decrypt(encryptedData, DEFAULT_PASS_PHRASE);
}

/**
 * Encrypts provided <code>data</code> with <code>passPhrase</code>
 */
private static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
        return encrypt(data, passPhrase);
    } catch (Exception e) {
        throw new IllegalStateException(e);
    }
}
final Cipher encryptionCipher = getEncryptionCipher(deriveSecretKey(passPhrase));
return encryptionCipher.doFinal(data);
} catch (IllegalBlockSizeException | BadPaddingException e) {
    throw new IllegalStateException(e);
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
 */
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
    try {
        final Cipher cipher = getDecryptionCipher(deriveSecretKey(passPhrase));
        return cipher.doFinal(encryptedData);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

static byte[] encryptV3Format(byte[] data) {
    try {
        SecretKey encryptionKey = getV3Key();
        final Cipher encryptionCipher = getEncryptionCipher(encryptionKey);
        return encryptionCipher.doFinal(pad(data, 20));
    } catch (GeneralSecurityException e) {
        throw new IllegalStateException(e);
    }
}

static byte[] decryptV3Format(byte[] data) {
    try {
        SecretKey decryptionKey = getV3Key();
        final Cipher decryptionCipher = getDecryptionCipher(decryptionKey);
        return unPad(decryptionCipher.doFinal(data));
    } catch (GeneralSecurityException e) {
        throw new IllegalStateException(e);
    }
}

private static SecretKeySpec getV3Key() throws NoSuchAlgorithmException, InvalidKeySpecException {
    final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    final byte[] passBytes = "elasticsearch-license".getBytes(StandardCharsets.UTF_8);
    final byte[] digest = MessageDigest.getInstance("SHA-512").digest(passBytes);
    final char[] hashedPassphrase = Base64.getEncoder().encodeToServer digest).toCharArray();
    PBEKeySpec keySpec = new PBEKeySpec(hashedPassphrase, salt, 1024, 128);
byte[] shortKey = SecretKeyFactory.getInstance("PBEWithSHAIAndDESede").
generateSecret(keySpec).getEncoded();
byte[] intermediaryKey = new byte[16];
for (int i = 0, j = 0; i < 16; i++) {
    intermediaryKey[i] = shortKey[j];
    if (++j == shortKey.length)
        j = 0;
}
return new SecretKeySpec(intermediaryKey, "AES");

private static SecretKey deriveSecretKey(char[] passPhrase) {
    try {
        PBEKeySpec keySpec = new PBEKeySpec(passPhrase, SALT, KDF_ITERATION_COUNT,
                ENCRYPTION_KEY_LENGTH);
        SecretKey secretKey = SecretKeyFactory.getInstance(KDF_ALGORITHM).
generateSecret(keySpec);
        return new SecretKeySpec(secretKey.getEncoded(), CIPHER_ALGORITHM);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

private static Cipher getEncryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.DECRYPT_MODE, secretKey);
}

private static Cipher getCipher(int mode, SecretKey secretKey) {
    try {
        Cipher cipher = Cipher.getInstance(CIPHER_ALGORITHM);
        cipher.init(mode, secretKey, RANDOM);
        return cipher;
    } catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
        throw new IllegalStateException(e);
    }
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }
byte[] out = new byte[length + 1];

int i = 0;
for (; i < bytes.length; i++)
    out[i] = bytes[i];

int padded = length - i;

// fill the rest with random bytes
byte[] fill = new byte[padded - 1];
RANDOM.nextBytes(fill);
System.arraycopy(fill, 0, out, i, padded - 1);

out[length] = (byte) (padded + 1);
return out;
}

private static byte[] unPad(byte[] bytes) {
    int padded = (int) bytes[bytes.length - 1];
    int targetLength = bytes.length - padded;

    byte[] out = new byte[targetLength];
    System.arraycopy(bytes, 0, out, 0, targetLength);

    return out;
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestAction;
import org.elasticsearch.rest.RestRequest.Method;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import org.elasticsearch.xpack.core.authz.AuthorizationService;
import java.io.IOException;
import java.util.Map;

import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartTrialLicense extends XPackRestHandler {

RestPostStartTrialLicense(Settings settings, RestController controller) {
    super(settings);
    controller.registerHandler(POST, URI_BASE + "/license/start_trial", this);
}

@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
    PostStartTrialRequest startTrialRequest = new PostStartTrialRequest();
    startTrialRequest.setType(request.param("type", "trial"));
    startTrialRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
    return channel -> client.licensing().postStartTrial(startTrialRequest,
        new RestBuilderListener<PostStartTrialResponse>(channel) {
            @Override
            public RestResponse buildResponse(PostStartTrialResponse response, XContentBuilder builder) throws Exception {
                PostStartTrialResponse.Status status = response.getStatus();
                builder.startObject();
                builder.field("acknowledged", startTrialRequest.isAcknowledged());
                if (status.isTrialStarted()) {
                    builder.field("trial_was_started", true);
                    builder.field("type", startTrialRequest.getType());
                } else {
                    builder.field("trial_was_started", false);
                    builder.field("error_message", status.getErrorMessage());
                }

                Map<String, String[]> acknowledgementMessages = response.getAcknowledgementMessages();
                if (acknowledgementMessages.isEmpty() == false) {
                    builder.startObject("acknowledge");
                    for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
                        builder.startArray(entry.getKey());
                        for (String message : entry.getValue()) {
                            builder.value(message);
                        }
                        builder.endArray();
                    }
                    builder.endObject();
                }

                builder.endObject();
            }
        }
    );
}

//
return new BytesRestResponse(status.getRestStatus(), builder);
}
});

@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}
*/
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.LogManager;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {
    private static final Logger logger = LogManager.getLogger(StartupSelfGeneratedLicenseTask.class);

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;

    private final Settings settings;
    private final Clock clock;
    private final ClusterService clusterService;

    public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
        this.settings = settings;
        this.clock = clock;
    }
}
this.clusterService = clusterService;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("registered self generated license: 
    " + licensesMetaData);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    final MetaData metaData = currentState.metaData();
    final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    if (currentLicensesMetaData == null) {
        String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
        if (SelfGeneratedLicense.validSelfGeneratedType(type) == false) {
            throw new IllegalArgumentException("Illegal self generated license type ".
    
    " + type + 
    \
    "). Must be trial or basic.");
        }
        return updateWithLicense(currentState, type);
    } else if (LicenseUtils.signatureNeedsUpdate(currentLicensesMetaData.getLicense(), currentState.nodes())) {
        return updateLicenseSignature(currentState, currentLicensesMetaData);
    } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
        return extendBasic(currentState, currentLicensesMetaData);
    } else {
        return currentState;
    }
}

private ClusterState updateLicenseSignature(ClusterState currentState, LicensesMetaData currentLicenseMetaData) {
    License license = currentLicenseMetaData.getLicense();
    METAData.Builder mdBuilder = MetaData.builder(currentState.metaData);
    String type = license.type();
    long issueDate = license.issueDate();
    long expiryDate = license.expiryDate();
    if ("basic".equals(type) && expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    }
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
LicensesMetaData newLicenseMetadata = new LicensesMetaData(selfGeneratedLicense, trialVersion);
mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
logger.info("Updating existing license to the new version.

Old license:
 {}

 New license:
{}", license, newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during 
[{}], source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    LicensesMetaData newLicenseMetadata = createBasicLicenseFromExistingLicense(currentLicenseMetadata);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
    logger.info("Existing basic license has an expiration. Basic licenses no longer expire."

    "Regenerating license.

    Old license:
    {}

    New license:
    {}", license, newLicenseMetadata.getLicense());
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
    License currentLicense = currentLicenseMetadata.getLicense();
    License.Builder specBuilder = License.builder()
        .uid(currentLicense.uid())
        .issuedTo(currentLicense.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(currentLicense.issueDate())
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentLicense.version());
    Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
    return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate;
    if ("basic".equals(type)) {
        mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    expiryDate = issueDate +
    LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
}

License.Builder specBuilder = License.builder()
    .uid(UUID.randomUUID().toString())
    .issuedTo(clusterService.getClusterName().value())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(issueDate)
    .type(type)
    .expiryDate(expiryDate);

License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
LicensesMetaData licensesMetaData;
if ("trial".equals(type)) {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
} else {
    licensesMetaData = new LicensesMetaData(selfGeneratedLicense, null);
}

mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetaData);
return ClusterState.builder(currentState).metaData(mdBuilder).build();

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 */

package org.elasticsearch.license;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */

import java.io.IOException;
import java.util.EnumSet;

/**
 * When license is explicitly removed by a user, LICENSE_TOMBSTONE
 * is used as a placeholder in the license metadata. This enables
 * us to distinguish between the scenario when a cluster never
 * had a license (null) and when a license was removed explicitly
 * (LICENSE_TOMBSTONE).
 * We rely on this to decide whether to generate a unsigned trial
 * license or not. we should only generate a license if no license
 * ever existed in the cluster state
 */

public static final License LICENSE_TOMBSTONE = License.builder()
    .type("trial")
    .issuer("elasticsearch")
    .uid("TOMBSTONE")
    .issuedTo(""")
    .maxNodes(0)
    .issueDate(0)
    .expiryDate(0)
    .build();

private License license;

// This field describes the version of x-pack for which this cluster has exercised a trial. If the field
// is null, then no trial has been exercised. We keep the version to leave open the possibility that we
// may eventually allow a cluster to exercise a trial every time they upgrade to a new major version.
@Nullable
private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
    this.license = license;
    this.trialVersion = trialVersion;
}

public License getLicense() {
    return license;
}

boolean isEligibleForTrial() {
    if (trialVersion == null) {
        return true;
    }
return Version.CURRENT.major > trialVersion.major;
}

Version getMostRecentTrialVersion() {
    return trialVersion;
}

@Override
class String toString() {
    return "LicensesMetaData{" +
        "license=" + license +
        ", trialVersion=" + trialVersion +
        "}";
}

@Override
class boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    LicensesMetaData that = (LicensesMetaData) o;

    if (license != null ? !license.equals(that.license) : that.license != null) return false;
    return trialVersion != null ? trialVersion.equals(that.trialVersion) : that.trialVersion == null;
}

@Override
class int hashCode() {
    int result = license != null ? license.hashCode() : 0;
    result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
    return result;
}

@Override
class String getWriteableName() {
    return TYPE;
}

@Override
class Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}

@Override
class EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}
public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {
    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    if (token == XContentParser.Token.START_OBJECT) {
                        license = License.fromXContent(parser);
                    } else if (token == XContentParser.Token.VALUE_NULL) {
                        license = LICENSE_TOMBSTONE;
                    }
                } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
                    parser.nextToken();
                    trialLicense = Version.fromString(parser.text());
                }
            }
        }
    }
    return new LicensesMetaData(license, trialLicense);
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
        license.toInnerXContent(builder, params);
        builder.endObject();
    }
    if (trialVersion != null) {
        builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
    }
    return builder;
}

@Override
public void writeTo(StreamOutput streamOutput) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        streamOutput.writeBoolean(false); // no license
    } else {
        streamOutput.writeBoolean(true); // has a license
        license.writeTo(streamOutput);
    }
}
if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
    if (trialVersion == null) {
        streamOutput.writeBoolean(false);
    } else {
        streamOutput.writeBoolean(true);
        Version.writeVersion(trialVersion, streamOutput);
    }
}

public LicensesMetaData(StreamInput streamInput) throws IOException {
    if (streamInput.readBoolean()) {
        license = License.readLicense(streamInput);
    } else {
        license = LICENSE_TOMBSTONE;
    }
    if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
        boolean hasExercisedTrial = streamInput.readBoolean();
        if (hasExercisedTrial) {
            this.trialVersion = Version.readVersion(streamInput);
        }
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        License license = licensesMetaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return null;
        } else {
            return license;
        }
    }
    return null;
}

@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
}
private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}

package org.elasticsearch.license;

import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
import static org.elasticsearch.rest.RestStatus.OK;

public class RestGetLicenseAction extends XPackRestHandler {

    @Inject
    public RestGetLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(GET, URI_BASE + "/license", this,
            GET, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(GET, "/_licenses", this,
            [GET "/_licenses"] is deprecated! Use " +
"[GET /_xpack/license] instead.",

@Override
public String getName() {
    return "xpack_get_license_action";
}

/**
 * There will be only one license displayed per feature, the selected license will have the latest expiry_date
 * out of all other licenses for the feature.
 * <p>
 * The licenses are sorted by latest issue_date
 */

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    final Map<String, String> overrideParams = new HashMap<>(2);
    overrideParams.put(License.REST_VIEW_MODE, "true");
    overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(License.VERSION_CURRENT));
    final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
    GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
    getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
    return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
        new RestBuilderListener<GetLicenseResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws Exception {
                // Default to pretty printing, but allow ?pretty=false to disable
                if (!request.hasParam("pretty")) {
                    builder.prettyPrint().ifAtEnd();
                }
                boolean hasLicense = response.license() != null;
                builder.startObject();
                if (hasLicense) {
                    builder.startObject("license");
                    response.license().toInnerXContent(builder, params);
                    builder.endObject();
                }
                builder.endObject();
                return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
            }
        });
}

}
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
    }

    PostStartBasicResponse(AcknowledgedResponse source) {
        super(source);
    }

    PostStartBasicResponse(AcknowledgedResponse source, Map<String, String[]> acknowledgeMessages) {
        super(source);
        this.acknowledgeMessages = acknowledgeMessages;
    }

    public PostStartBasicResponse(AcknowledgedResponse source, String acknowledgeMessage) {
        super(source);
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public PostStartBasicResponse(AcknowledgedResponse source, Status status) {
        super(source);
        this.acknowledgeMessage = status.name();
    }

    public PostStartBasicResponse(AcknowledgedResponse source, Status status, String acknowledgeMessage) {
        super(source);
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public PostStartBasicResponse(AcknowledgedResponse source, Map<String, String[]> acknowledgeMessages, Status status) {
        super(source);
        this.acknowledgeMessages = acknowledgeMessages;
        this.acknowledgeMessage = status.name();
    }

    public PostStartBasicResponse(AcknowledgedResponse source, Map<String, String[]> acknowledgeMessages, Status status, String acknowledgeMessage) {
        super(source);
        this.acknowledgeMessages = acknowledgeMessages;
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public void setAcknowledgeMessages(Map<String, String[]> acknowledgeMessages) {
        this.acknowledgeMessages = acknowledgeMessages;
    }

    public void setAcknowledgeMessage(String acknowledgeMessage) {
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public Map<String, String[]> getAcknowledgeMessages() {
        return this.acknowledgeMessages;
    }

    public String getAcknowledgeMessage() {
        return this.acknowledgeMessage;
    }

    // Other methods and constructors
}
private final boolean isBasicStarted;
private final String errorMessage;
private final RestStatus restStatus;

Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
    this.isBasicStarted = isBasicStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;

PostStartBasicResponse() {
}

PostStartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    super(status != NEED_ACKNOWLEDGEMENT);
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = in.readEnum(Status.class);
    acknowledgeMessage = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeEnum(status);
    out.writeOptionalString(acknowledgeMessage);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    if (acknowledgeMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeMessage);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
        }
        builder.endObject();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest,
PostStartBasicResponse> {

private final LicenseService licenseService;

@Inject
public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService
clusterService,
LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver, PostStartBasicRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
public String executor() {
    return ThreadPool.Names.SAME;
}

@override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@override
protected String executor() {
    return ThreadPool.Names.SAME;
}
protected PostStartBasicResponse newResponse() {
    return new PostStartBasicResponse();
}

@Override
protected void masterOperation(PostStartBasicRequest request, ClusterState state, ActionListener<PostStartBasicResponse> listener) throws Exception {
    licenseService.startBasicLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

*/
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;

public class GetLicenseAction extends Action<GetLicenseRequest, GetLicenseResponse, GetLicenseRequestBuilder> {

    public static final GetLicenseAction INSTANCE = new GetLicenseAction();
    public static final String NAME = "cluster:monitor/xpack/license/get";

    private GetLicenseAction() {
        super(NAME);
    }

    @Override
    public GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }

    @Override
    public GetLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetLicenseRequestBuilder(client, this);
    }

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*
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.action.support.master.AcknowledgedResponse;

public class DeleteLicenseAction extends Action<DeleteLicenseRequest, AcknowledgedResponse,
DeleteLicenseRequestBuilder> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public AcknowledgedResponse newResponse() {
        return new AcknowledgedResponse();
    }

    @Override
    public DeleteLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new DeleteLicenseRequestBuilder(client, this);
    }

    public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

        private boolean acknowledge = false;

        public PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

            private boolean acknowledge = false;

    import org.elasticsearch.Version;
    import org.elasticsearch.action.ActionRequestValidationException;
    import org.elasticsearch.action.support.master.MasterNodeRequest;
    import org.elasticsearch.common.io.stream.StreamInput;
    import org.elasticsearch.common.io.stream.StreamOutput;
    import java.io.IOException;

    public PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

        private boolean acknowledge = false;

    import java.io.IOException;

    public PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

        private boolean acknowledge = false;

}
private String type;

@Override
public ActionRequestValidationException validate() {
    return null;
}

public PostStartTrialRequest setType(String type) {
    this.type = type;
    return this;
}

public String getType() {
    return type;
}

public PostStartTrialRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        type = in.readString();
        acknowledge = in.readBoolean();
    } else {
        type = "trial";
        acknowledge = true;
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        super.writeTo(out);
        out.writeString(type);
        out.writeBoolean(acknowledge);
    } else {
        if ("trial".equals(type) == false) {
            throw new IllegalArgumentException("All nodes in cluster must be version [" + version + "] or newer to start trial with a different type than 'trial'. Attempting to write to ") +
        }
    }
}
"a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
} else if (acknowledge == false) {
    throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version "+
    "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "]
    "without acknowledgement.");
} else {
    super.writeTo(out);
}
*/

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* you may not use this file except in compliance with the Elastic License.
*/

package org.elasticsearch.license;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;
import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;

/**
 * Data structure for license. Use {@link Builder} to build a license.
 * Provides serialization/deserialization & validation methods for license object
public class License implements ToXContentObject {
    public static final int VERSION_START = 1;
    public static final int VERSION_NO_FEATURE_TYPE = 2;
    public static final int VERSION_START_DATE = 3;
    public static final int VERSION_CRYPTO_ALGORITHMS = 4;
    public static final int VERSION_CURRENT = VERSION_CRYPTO_ALGORITHMS;

    /**
     * XContent param name to deserialize license(s) with
     * an additional <code>status</code> field, indicating whether a
     * particular license is 'active' or 'expired' and no signature
     * and in a human readable format
     */
    public static final String REST_VIEW_MODE = "rest_view";

    /**
     * XContent param name to deserialize license(s) with
     * no signature
     */
    public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";

    /**
     * XContent param name to deserialize licenses according
     * to a specific license version
     */
    public static final String LICENSE_VERSION_MODE = "license_version";

    public static final Comparator<License> LATEST_ISSUE_DATE_FIRST =
            Comparator.comparing(License::issueDate).reversed();

    private final int version;
    private final String uid;
    private final String issuer;
    private final String issuedTo;
    private final long issueDate;
    private final String type;
    private final String subscriptionType;
    private final String feature;
    private final String signature;
    private final long expiryDate;
    private final long startDate;
    private final int maxNodes;
    private final OperationMode operationMode;

    /**
     * Decouples operation mode of a license from the license type value.
     * <p>
     * Note: The mode indicates features that should be made available, but it does not indicate whether the license is
     * active!
     */
* The id byte is used for ordering operation modes (used for merging license md in tribe node)
*/

public enum OperationMode {
  MISSING((byte) 0),
  TRIAL((byte) 1),
  BASIC((byte) 2),
  STANDARD((byte) 3),
  GOLD((byte) 4),
  PLATINUM((byte) 5);

  private final byte id;

  OperationMode(byte id) {
    this.id = id;
  }

  /** Returns non-zero positive number when <code>opMode1</code> is greater than <code>opMode2</code> */
  public static int compare(OperationMode opMode1, OperationMode opMode2) {
    return Integer.compare(opMode1.id, opMode2.id);
  }

  public static OperationMode resolve(String type) {
    switch (type.toLowerCase(Locale.ROOT)) {
      case "missing":
        return MISSING;
      case "trial":
      case "none": // bwc for 1.x subscription_type field
      case "dev": // bwc for 1.x subscription_type field
      case "development": // bwc for 1.x subscription_type field
        return TRIAL;
      case "basic":
        return BASIC;
      case "standard":
        return STANDARD;
      case "silver":
      case "gold":
        return GOLD;
      case "platinum":
      case "cloud_internal":
      case "internal": // bwc for 1.x subscription_type field
        return PLATINUM;
      default:
        throw new IllegalArgumentException("unknown type [" + type + "]");
    }
  }
}
private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
    String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate)
{
    this.version = version;
    this.uid = uid;
    this.issuer = issuer;
    this.issuedTo = issuedTo;
    this.issueDate = issueDate;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.feature = feature;
    this.signature = signature;
    // We will validate that only a basic license can have the
    BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
    // in the validate() method.
    if (expiryDate == -1) {
        this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        this.expiryDate = expiryDate;
    }
    this.maxNodes = maxNodes;
    this.startDate = startDate;
    if (version == VERSION_START) {
        // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
        this.operationMode = OperationMode.resolve(subscriptionType);
    } else {
        // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
        this.operationMode = OperationMode.resolve(type);
    }
    validate();
}

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}
* @return type of the license [trial, subscription, internal]
*/
public String type() {
    return type;
}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
}

/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
public long expiryDate() {
    return expiryDate;
}

/**
 * @return the maximum number of nodes this license has been issued for
 */
public int maxNodes() {
    return maxNodes;
}

/**
 * @return a string representing the entity this licenses has been issued to
 */
public String issuedTo() {
    return issuedTo;
}

/**
 * @return a string representing the entity responsible for issuing this license (internal)
 */
public String issuer() {
    return issuer;
}
/**
 * @return a string representing the signature of the license used for license verification
 */
public String signature() {
    return signature;
}

/**
 * @return the operation mode of the license as computed from the license type or from
 * the license mode file
 */
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}

private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
 * Sets the operation mode file watcher for the license and initializes the
 * file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(OperationModeFileWatcher operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license's status
 */
public LicenseStatus status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return LicenseStatus.INVALID;
    } else if (expiryDate < now) {
        return LicenseStatus.EXPIRED;
    }
    return LicenseStatus.ACTIVE;
}

private void validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (subscriptionType == null && version == VERSION_START) {
        throw new IllegalStateException("subscriptionType can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (feature == null && version == VERSION_START) {
        throw new IllegalStateException("feature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    } else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
        && "basic".equals(type) == false) {
        throw new IllegalStateException("only basic licenses are allowed to have no expiration");
    }
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
        elasticsearch-license" +
            " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    builder.subscriptionType(in.readString());
    ...
}
builder.issueDate(in.readLong());
if (version == VERSION_START) {
    builder.feature(in.readString());
}
builder.expiryDate(in.readLong());
builder.maxNodes(in.readInt());
builder.issuedTo(in.readString());
builder.issuer(in.readString());
builder.signature(in.readOptionalString());
if (version >= VERSION_START_DATE) {
    builder.startDate(in.readLong());
}
return builder.build();
}

class Service extends AbstractService {
    public void writeTo(StreamOutput out) throws IOException {
        out.writeVInt(version);
        out.writeString(uid);
        out.writeString(type);
        if (version == VERSION_START) {
            out.writeString(subscriptionType);
        }
        out.writeLong(issueDate);
        if (version == VERSION_START) {
            out.writeString(feature);
        }
        out.writeLong(expiryDate);
        out.writeInt(maxNodes);
        out.writeString(issuedTo);
        out.writeString(issuer);
        out.writeOptionalString(signature);
        if (version >= VERSION_START_DATE) {
            out.writeLong(startDate);
        }
    }

    @Override
    public String toString() {
        try {
            final XContentBuilder builder = XContentFactory.jsonBuilder();
            toXContent(builder, ToXContent.EMPTY_PARAMS);
            return Strings.toString(builder);
        } catch (IOException e) {
            return "";
        }
    }
}
@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
toInnerXContent(builder, params);
bUILDER.endObject();
    return builder;
}

public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
    boolean previouslyHumanReadable = builder.humanReadable();
    if (licenseSpecMode && restViewMode) {
        throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " + LICENSE_SPEC_VIEW_MODE);
    } else if (restViewMode) {
        if (!previouslyHumanReadable) {
            builder.humanReadable(true);
        }
    }

    final int version;
    if (params.param(LICENSE_VERSION_MODE) != null && restViewMode) {
        version = Integer.parseInt(params.param(LICENSE_VERSION_MODE));
    } else {
        version = this.version;
    }
    if (restViewMode) {
        builder.field(Fields.STATUS, status().label());
    }
    builder.field(Fields.UID, uid);
    builder.field(Fields.TYPE, type);
    if (version == VERSION_START) {
        builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
    }
    builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
    if (version == VERSION_START) {
        builder.field(Fields.FEATURE, feature);
    }
    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
    }
    builder.field(Fields.MAX_NODES, maxNodes);
    builder.field(Fields.ISSUED_TO, issuedTo);
    builder.field(Fields.ISSUER, issuer);
    if (!licenseSpecMode && !restViewMode && signature != null) {
        builder.field(Fields.SIGNATURE, signature);
    }
if (restViewMode) {
    builder.humanReadable(previouslyHumanReadable);
}

if (version >= VERSION_START_DATE) {
    builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
}
return builder;

public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            token = parser.nextToken();
            if (token.isValue()) {
                if (Fields.UID.equals(currentFieldName)) {
                    builder.uid(parser.text());
                } else if (Fields.TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.subscriptionType(parser.text());
                } else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
                    builder.issueDate(parseDate(parser, "issue", false));
                } else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.issueDate(parser.longValue());
                } else if (Fields.FEATURE.equals(currentFieldName)) {
                    builder.feature(parser.text());
                } else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
                    builder.expiryDate(parseDate(parser, "expiration", true));
                } else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.expiryDate(parser.longValue());
                } else if (Fields.START_DATE.equals(currentFieldName)) {
                    builder.startDate(parseDate(parser, "start", false));
                } else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.startDate(parser.longValue());
                } else if (Fields.MAX_NODES.equals(currentFieldName)) {
                    builder.maxNodes(parser.intValue());
                } else if (Fields.ISSUED_TO.equals(currentFieldName)) {
                    builder.issuedTo(parser.text());
                } else if (Fields.ISSUER.equals(currentFieldName)) {
                    builder.issuer(parser.text());
                } else if (Fields.SIGNATURE.equals(currentFieldName)) {
                    builder.signature(parser.text());
                } else if (Fields.VERSION.equals(currentFieldName)) {
                    builder.version(parser.intValue());
                }
            }
        }
    }
    return builder;
}
// Ignore unknown elements - might be new version of license
} else if (token == XContentParser.Token.START_ARRAY) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
} else if (token == XContentParser.Token.START_OBJECT) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
}
}

// not a license spec
if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
        throw new ElasticsearchException("malformed signature for license [" + builder.uid + "]");
    } else if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
" +
            "elasticsearch-license plugin");
    }
    // signature version is the source of truth
    builder.version(version);
}
return builder.build();

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

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public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
    if (xContentType == null) {
        throw new ElasticsearchParseException("failed to parse license - no content-type provided");
    }
    // EMPTY is safe here because we don't call namedObject
    try (InputStream byteStream = bytes.streamInput();
         XContentParser parser = xContentType.xContent()
                 .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream)) {
        License license = null;
        if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
            if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
                String currentFieldName = parser.currentName();
                if (Fields.LICENSES.equals(currentFieldName)) {
                    final List<License> pre20Licenses = new ArrayList<>();
                    if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                        while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                            pre20Licenses.add(License.fromXContent(parser));
                        }
                        // take the latest issued unexpired license
                        CollectionUtil.timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
                        long now = System.currentTimeMillis();
                        for (License oldLicense : pre20Licenses) {
                            if (oldLicense.expiryDate() > now) {
                                license = oldLicense;
                                break;
                            }
                        }
                    } else {
                        throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
                    }
                    if (license == null && !pre20Licenses.isEmpty()) {
                        license = pre20Licenses.get(0);
                    }
                    } else {
                        throw new ElasticsearchParseException("failed to parse licenses expected field");
                    }
                    } else if (Fields.LICENSE.equals(currentFieldName)) {
                        license = License.fromXContent(parser);
                    } // Ignore all other fields - might be created with new version
                } else {
                    throw new ElasticsearchParseException("failed to parse licenses expected field");
                }
            } else {
                throw new ElasticsearchParseException("failed to parse licenses expected start object");
            }
        } return license;
@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    License license = (License) o;
    if (issueDate != license.issueDate) return false;
    if (expiryDate != license.expiryDate) return false;
    if (startDate != license.startDate) return false;
    if (maxNodes != license.maxNodes) return false;
    if (version != license.version) return false;
    if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
    if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
    if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
    if (type != null ? !type.equals(license.type) : license.type != null) return false;
    if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType != null) return false;
    if (feature != null ? !feature.equals(license.feature) : license.feature != null) return false;
    return !(signature != null ? !signature.equals(license.signature) : license.signature != null);
}

@Override
public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate >>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

public static final class Fields {
    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
}
public static final String SUBSCRIPTION_TYPE = "subscription_type";
public static final String ISSUE_DATE_IN_MILLS = "issue_date_in_millis";
public static final String ISSUE_DATE = "issue_date";
public static final String FEATURE = "feature";
public static final String EXPIRY_DATE_IN_MILLS = "expiry_date_in_millis";
public static final String EXPIRY_DATE = "expiry_date";
public static final String START_DATE_IN_MILLS = "start_date_in_millis";
public static final String START_DATE = "start_date";
public static final String MAX_NODES = "max_nodes";
public static final String ISSUED_TO = "issued_to";
public static final String ISSUER = "issuer";
public static final String VERSION = "version";
public static final String SIGNATURE = "signature";

public static final String LICENSES = "licenses";
public static final String LICENSE = "license";

private static long parseDate(XContentParser parser, String description, boolean endOfTheDay) throws IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {
        return parser.longValue();
    } else {
        try {
            if (endOfTheDay) {
                return DateUtils.endOfTheDay(parser.text());
            } else {
                return DateUtils.beginningOfDay(parser.text());
            }
        } catch (IllegalArgumentException ex) {
            throw new ElasticsearchParseException("invalid " + description + " date format " + parser.text());
        }
    }
}

public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
}
private String feature;
private String signature;
private long expiryDate = -1;
private long startDate = -1;
private int maxNodes = -1;

public Builder uid(String uid) {
    this.uid = uid;
    return this;
}

public Builder version(int version) {
    this.version = version;
    return this;
}

public Builder issuer(String issuer) {
    this.issuer = issuer;
    return this;
}

public Builder issuedTo(String issuedTo) {
    this.issuedTo = issuedTo;
    return this;
}

public Builder issueDate(long issueDate) {
    this.issueDate = issueDate;
    return this;
}

public Builder type(String type) {
    this.type = type;
    return this;
}

public Builder subscriptionType(String subscriptionType) {
    this.subscriptionType = subscriptionType;
    return this;
}

public Builder feature(String feature) {
    this.feature = feature;
    return this;
}

public Builder expiryDate(long expiryDate) {
    this.expiryDate = expiryDate;
}
return this;
}

public Builder maxNodes(int maxNodes) {
    this.maxNodes = maxNodes;
    return this;
}

public Builder signature(String signature) {
    if (signature != null) {
        this.signature = signature;
    }
    return this;
}

public Builder startDate(long startDate) {
    this.startDate = startDate;
    return this;
}

public Builder fromLicenseSpec(License license, String signature) {
    return uid(license.uid())
        .version(license.version())
        .issuedTo(license.issuedTo())
        .issueDate(license.issueDate())
        .startDate(license.startDate())
        .type(license.type())
        .subscriptionType(license.subscriptionType)
        .feature(license.feature)
        .maxNodes(license.maxNodes())
        .expiryDate(license.expiryDate())
        .issuer(license.issuer())
        .signature(signature);
}

/**
* Returns a builder that converts pre 2.0 licenses
* to the new license format
*/
public Builder fromPre20LicenseSpec(License pre20License) {
    return uid(pre20License.uid())
        .issuedTo(pre20License.issuedTo())
        .issueDate(pre20License.issueDate())
        .maxNodes(pre20License.maxNodes())
        .expiryDate(pre20License.expiryDate());
}

public License build() {
    return this;
}
return new License(version, uid, issuer, issuedTo, issueDate, type,
subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
}

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (signature == null) {
        throw new IllegalStateException("signature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    }
    return this;
}

/**
 * Returns <code>true</code> iff the license is a production license
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return true;
        default:
            throw new AssertionError("unknown operation mode: "+operationMode());
    }
}

/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerFactory;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

    /** Messages for each feature which are printed when the license expires. */
    static final Map<String, String[]> EXPIRATION_MESSAGES;
    static {
        Map<String, String[]> messages = new LinkedHashMap<>();
        messages.put(XPackField.SECURITY, new String[] {
            "Cluster health, cluster stats and indices stats operations are blocked",
            "All data operations (read and write) continue to work"
        });
        messages.put(XPackField.WATCHER, new String[] {
            "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
            "Watches execute and write to the history",
            "The actions of the watches don't execute"
        });
        messages.put(XPackField.MONITORING, new String[] {
            "The agent will stop collecting cluster and indices metrics",
            "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
        });
        messages.put(XPackField.GRAPH, new String[] {
            "Graph explore APIs are disabled"
        });
    }
}
messages.put(XPackField.MACHINE_LEARNING, new String[] {
    "Machine learning APIs are disabled"
});
messages.put(XPackField.LOGSTASH, new String[] {
    "Logstash will continue to poll centrally-managed pipelines"
});
messages.put(XPackField.BEATS, new String[] {
    "Beats will continue to poll centrally-managed configuration"
});
messages.put(XPackField.DEPRECATION, new String[] {
    "Deprecation APIs are disabled"
});
messages.put(XPackField.UPGRADE, new String[] {
    "Upgrade API is disabled"
});
messages.put(XPackField.SQL, new String[] {
    "SQL support is disabled"
});
messages.put(XPackField.ROLLUP, new String[] {
    "Creating and Starting rollup jobs will no longer be allowed.
    Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
});
EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);

/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>> ACKNOWLEDGMENT_MESSAGES;
static {
    Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
    messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
    messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
    messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
    messages.put(XPackField.MACHINE_LEARNING,
        XPackLicenseState::machineLearningAcknowledgementMessages);
    messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
    messages.put(XPackField.BEATS, XPackLicenseState::beatsAcknowledgementMessages);
    messages.put(XPackField.SQL, XPackLicenseState::sqlAcknowledgementMessages);
    ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);
}

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {

case BASIC:
    switch (currentMode) {
        case TRIAL:
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return new String[] {
                "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                "ip filtering, and auditing. Please restart your node after applying the license. ",
                "Field and document level access control will be disabled. ",
                "Custom realms will be ignored."
            };
    }
    break;

    case GOLD:
    switch (currentMode) {
        case BASIC:
        case STANDARD:
        // ^^ though technically it was already disabled, it's not bad to remind them
        case TRIAL:
        case PLATINUM:
            return new String[] {
                "Field and document level access control will be disabled. ",
                "Custom realms will be ignored."
            };
    }
    break;

    case STANDARD:
    switch (currentMode) {
        case BASIC:
        // ^^ though technically it was already disabled, it's not bad to remind them
        case GOLD:
        case PLATINUM:
        case TRIAL:
            return new String[] {
                "Authentication will be limited to the native realms. ",
                "IP filtering and auditing will be disabled. ",
                "Field and document level access control will be disabled. ",
                "Custom realms will be ignored."
            };
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Watcher will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        LoggerMessageFormat.format(
                            "Multi-cluster support is disabled for clusters with \[{}\] license. If you are
running multiple clusters, users won't be able to access the clusters within
\[{}\] licenses from within a single X-Pack Kibana instance. You will have to deploy a
separate and dedicated X-pack Kibana instance for each \[{}\] cluster you wish to monitor.",
newMode, newMode, newMode),
                        LoggerMessageFormat.format(
                            "Automatic index cleanup is locked to \{\} days for clusters with \[{}\] license.",
                        MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    );
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}
return new String[] { "Graph will be disabled" };  
}  
break;  
}  
return Strings.EMPTY_ARRAY;  
}  

private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode,  
OperationMode newMode) {  
switch (newMode) {  
case BASIC:  
case STANDARD:  
case GOLD:  
switch (currentMode) {  
case TRIAL:  
case PLATINUM:  
return new String[] { "Machine learning will be disabled" };  
}  
break;  
}  
return Strings.EMPTY_ARRAY;  
}  

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode  
newMode) {  
switch (newMode) {  
case BASIC:  
if (isBasic(currentMode) == false) {  
return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };  
}  
break;  
}  
return Strings.EMPTY_ARRAY;  
}  

private static String[] beatsAcknowledgementMessages(OperationMode currentMode, OperationMode newMode)  
{  
switch (newMode) {  
case BASIC:  
if (isBasic(currentMode) == false) {  
return new String[] { "Beats will no longer be able to use centrally-managed configuration" };  
}  
break;  
}  
return Strings.EMPTY_ARRAY;  
}  

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode)  
{
switch (newMode) {
    case BASIC:
    case STANDARD:
    case GOLD:
        switch (currentMode) {
            case TRIAL:
            case PLATINUM:
                return new String[]{
                    "JDBC and ODBC support will be disabled, but you can continue to use SQL CLI and REST endpoint" ];
                }
            break;
        }
    return Strings.EMPTY_ARRAY;
}

private static boolean isBasic(OperationMode mode) {
    return mode == OperationMode.BASIC;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {

    /** The current "mode" of the license (i.e license type). */
    final OperationMode mode;

    /** True if the license is active, or false if it is expired. */
    final boolean active;

    Status(OperationMode mode, boolean active) {
        this.mode = mode;
        this.active = active;
    }
}

private final List<LicenseStateListener> listeners;
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

private Status status = new Status(OperationMode.TRIAL, true);
private boolean isSecurityEnabledByTrialVersion;

public XPackLicenseState(Settings settings) {
    this.listeners = new CopyOnWriteArrayList<>();
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
(settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
this.isSecurityEnabledByTrialVersion = false;
}

private XPackLicenseState(XPackLicenseState xPackLicenseState) {
this.listeners = xPackLicenseState.listeners;
this.isSecurityEnabled = xPackLicenseState.isSecurityEnabled;
this.isSecurityExplicitlyEnabled = xPackLicenseState.isSecurityExplicitlyEnabled;
this.status = xPackLicenseState.status;
this.isSecurityEnabledByTrialVersion = xPackLicenseState.isSecurityEnabledByTrialVersion;
}

/**
 * Updates the current state of the license, which will change what features are available.
 * 
 * @param mode   The mode (type) of the current license.
 * @param active True if the current license exists and is within its allowed usage period; false if it is expired or missing.
 * @param mostRecentTrialVersion If this cluster has, at some point commenced a trial, the most recent version on which they did that.
 * May be [@code null] if they have never generated a trial license on this cluster, or the most recent trial was prior to this metadata being tracked (6.1)
 */
void update(OperationMode mode, boolean active, @Nullable Version mostRecentTrialVersion) {
    synchronized (this) {
        status = new Status(mode, active);
        if (isSecurityEnabled == true && isSecurityExplicitlyEnabled == false && mode == OperationMode.TRIAL &&
            isSecurityEnabledByTrialVersion == false) {
            // Before 6.3, Trial licenses would default having security enabled.
            // If this license was generated before that version, then treat it as if security is explicitly enabled
            if (mostRecentTrialVersion == null || mostRecentTrialVersion.before(Version.V_6_3_0)) {
                Loggers.getLogger(getClass()).info("Automatically enabling security for older trial license ({})", 
                    mostRecentTrialVersion == null ? ":[pre 6.1.0]" : mostRecentTrialVersion.toString());
                isSecurityEnabledByTrialVersion = true;
            }
        }
        listeners.forEach(LicenseStateListener::licenseStateChanged);
    }
}

/** Add a listener to be notified on license change */
public void addListener(final LicenseStateListener listener) {
    listeners.add(Objects.requireNonNull(listener));
}
/** Remove a listener */
public void removeListener(final LicenseStateListener listener) {
    listeners.remove(Objects.requireNonNull(listener));
}

/** Return the current license type. */
public synchronized OperationMode getOperationMode() {
    return status.mode;
}

/** Return true if the license is currently within its time boundaries, false otherwise. */
public synchronized boolean isActive() {
    return status.active;
}

/**
 * @return true if authentication and authorization should be enabled. this does not indicate what realms are available
 * @see #allowedRealmType() for the enabled realms
 */
public synchronized boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.STANDARD || mode ==
        OperationMode.GOLD
        || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * @return true if IP filtering should be enabled
 */
public synchronized boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode ==
        OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}

/**
 * @return true if auditing should be enabled
 */
public synchronized boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
        isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.GOLD || mode ==
        OperationMode.PLATINUM || mode == OperationMode.TRIAL);
}
public synchronized boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
 * Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace
 * period then we deny these calls.
 * @return true if the license allows for the stats and health APIs to be used.
 */
public synchronized boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
 * Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
 * <p>
 * DLS and FLS are only disabled when the mode is not:
 * <ul>
 *     <li>{@link OperationMode#PLATINUM}</li>
 *     <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * Note: This does not consider the <em>state</em> of the license so that Security does not suddenly leak
 * information!
 * @return {@code true} to enable DLS and FLS. Otherwise {@code false}.
 */
public synchronized boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    final boolean isSecurityCurrentlyEnabled =
    isSecurityEnabled(mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (mode == OperationMode.TRIAL || mode ==
        OperationMode.PLATINUM);
}

/** Classes of realms that may be available based on the license type. */
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL
}

/**
 * @return the type of realms that are enabled based on the license [ @link OperationMode]
 */
public synchronized AllowedRealmType allowedRealmType() {
    final boolean isSecurityCurrentlyEnabled =
    isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled,
isSecurityCurrentlyEnabled) {
    switch (status.mode) {
    case PLATINUM:
    case TRIAL:
        return AllowedRealmType.ALL;
    case GOLD:
        return AllowedRealmType.DEFAULT;
    case STANDARD:
        return AllowedRealmType.NATIVE;
    default:
        return AllowedRealmType.NONE;
    }
} else {
    return AllowedRealmType.NONE;
}

/**
 * @return whether custom role providers are allowed based on the license { @link OperationMode}
 */
public synchronized boolean isCustomRoleProvidersAllowed() {
    final boolean isSecurityCurrentlyEnabled =
    isSecurityEnabled(status.mode, isSecurityExplicitlyEnabled, isSecurityEnabledByTrialVersion, isSecurityEnabled);
    return isSecurityCurrentlyEnabled && (status.mode == OperationMode.PLATINUM || status.mode ==
    OperationMode.TRIAL)
    && status.active;
}

/**
 * @return whether "authorization_realms" are allowed based on the license { @link OperationMode}
 * @see org.elasticsearch.xpack.core.security.authc.support.DelegatedAuthorizationSettings
 */
public boolean isAuthorizationRealmAllowed() {
    final Status localStatus = status;
    return (localStatus.mode == OperationMode.PLATINUM || localStatus.mode == OperationMode.TRIAL)
    && localStatus.active;
}

/**
 * Determine if Watcher is available based on the current license.
 * <p>
 * Watcher is available if the license is active (hasn't expired) and of one of the following types:
 * <ul>
 *   <li>{@link OperationMode#STANDARD}</li>
 *   <li>{@link OperationMode#PLATINUM}</li>
 *   <li>{@link OperationMode#GOLD}</li>
 * </ul>
 */
* @return [code true] as long as the license is valid. Otherwise [code false].
*/
public synchronized boolean isWatcherAllowed() {
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}
/**
* Monitoring is always available as long as there is a valid license
*
* @return true if the license is active
*/
public synchronized boolean isMonitoringAllowed() {
    return status.active;
}
/**
* Monitoring Cluster Alerts requires the equivalent license to use Watcher.
*
* @return [link isWatcherAllowed()]
* @see isWatcherAllowed()
*/
public synchronized boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}
/**
* Determine if the current license allows the retention of indices to be modified.
* <p>
* Only users with a non-[link OperationMode#BASIC] license can update the retention period.
* <p>
* Note: This does not consider the <em>state</em> of the license so that any change is remembered for when
they fix their license.
*
* @return { @code true} if the user is allowed to modify the retention. Otherwise { @code false}.  */
public synchronized boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}
/**
 * Determine if Graph Exploration should be enabled.
 * Exploration is only disabled when the license has expired or if the mode is not:
 * <ul>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * @return { @code true} as long as the license is valid. Otherwise { @code false}.  */
public synchronized boolean isGraphAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode == OperationMode.PLATINUM;

    return licensed && localStatus.active;
}
/**
 * Determine if Machine Learning should be enabled.
 * Machine Learning is only disabled when the license has expired or if the mode is not:
 * <ul>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * @return { @code true} as long as the license is valid. Otherwise { @code false}.  */
public synchronized boolean isMachineLearningAllowed() {
    final Status currentStatus = status;
    return currentStatus.active && isMachineLearningAllowedForOperationMode(currentStatus.mode);
}
public static boolean isMachineLearningAllowedForOperationMode(final OperationMode operationMode) {
    return isPlatinumOrTrialOperationMode(operationMode);
}

/**
 * Rollup is always available as long as there is a valid license
 * @return true if the license is active
 */
public synchronized boolean isRollupAllowed() {
    return status.active;
}

/**
 * Logstash is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return {@code true} as long as there is a valid license
 */
public synchronized boolean isLogstashAllowed() {
    Status localStatus = status;
    return localStatus.active && (isBasic(localStatus.mode) == false);
}

/**
 * Beats is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return {@code true} as long as there is a valid license
 */
public boolean isBeatsAllowed() {
    Status localStatus = status;
    return localStatus.active && (isBasic(localStatus.mode) == false);
}

/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return {@code true} as long as there is a valid license
 */
public synchronized boolean isDeprecationAllowed() {
    return status.active;
}

/**
 * Determine if Upgrade API should be enabled.
 * <p>
 * Upgrade API is not available in for all license types except [@link OperationMode#MISSING]
 * @return [@code true] as long as the license is valid. Otherwise [code false].
 */
public synchronized boolean isUpgradeAllowed() {
    // Should work on all active licenses
    return status.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except @link OperationMode#MISSING
 */
public synchronized boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for @link OperationMode#PLATINUM and @link OperationMode#TRIAL licences
 */
public synchronized boolean isJdbcAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode == OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Determine if ODBC support should be enabled.
 * <p>
 * ODBC is available only in for @link OperationMode#PLATINUM and @link OperationMode#TRIAL licences
 */
public synchronized boolean isOdbcAllowed() {
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode == OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public synchronized boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
/**
 * @return true if security is available to be used with the current license type
 */
public synchronized boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==
    OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

/**
 * @return true if security has been disabled by a trial license which is the case of the
 * default distribution post 6.3.0. The conditions necessary for this are:
 * <ul>
 *     <li>A trial license generated in 6.3.0+</li>
 *     <li>xpack.security.enabled not specified as a setting</li>
 * </ul>
 */
public synchronized boolean isSecurityDisabledByTrialLicense() {
    return status.mode == OperationMode.TRIAL && isSecurityEnabled
    && isSecurityExplicitlyEnabled == false
    && isSecurityEnabledByTrialVersion == false;
}

private static boolean isSecurityEnabled(final OperationMode mode, final boolean isSecurityExplicitlyEnabled,
final boolean isSecurityEnabledByTrialVersion, final boolean isSecurityEnabled) {
    return mode == OperationMode.TRIAL ? (isSecurityExplicitlyEnabled || isSecurityEnabledByTrialVersion) :
    isSecurityEnabled;
}

/**
 * Determine if cross-cluster replication should be enabled.
 * <p>
 * Cross-cluster replication is only disabled when the license has expired or if the mode is not:
 * <ul>
 *     <li>{@link OperationMode#PLATINUM}</li>
 *     <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * @return true is the license is compatible, otherwise false
 */
public synchronized boolean isCcrAllowed() {
    final Status currentStatus = status;
    return currentStatus.active && isCcrAllowedForOperationMode(currentStatus.mode);
}
public static boolean isCcrAllowedForOperationMode(final OperationMode operationMode) {
    return isPlatinumOrTrialOperationMode(operationMode);
}

public static boolean isPlatinumOrTrialOperationMode(final OperationMode operationMode) {
    return operationMode == OperationMode.PLATINUM || operationMode == OperationMode.TRIAL;
}

/**
 * Creates a copy of this object based on the state at the time the method was called. The
 * returned object will not be modified by a license update/expiration so it can be used to
 * make multiple method calls on the license state safely. This object should not be long
 * lived but instead used within a method when a consistent view of the license state
 * is needed for multiple interactions with the license state.
 */
public synchronized XPackLicenseState copyCurrentLicenseState() {
    return new XPackLicenseState(this);
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.ValidateActions;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private License license;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
    }
}
/**
 * Parses license from json format to an instance of {@link License}
 *
 * @param licenseDefinition licenses definition
 * @param xContentType the content type of the license
 */
public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
    try {
        return license(License.fromSource(licenseDefinition, xContentType));
    }
    catch (IOException e) {
        throw new IllegalArgumentException("failed to parse license source", e);
    }
}

public PutLicenseRequest license(License license) {
    this.license = license;
    return this;
}

public License license() {
    return license;
}

public PutLicenseRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean acknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    license = License.readLicense(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    license.writeTo(out);
    out.writeBoolean(acknowledge);
}
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

/**
 * Register license request builder
 */
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<PutLicenseRequest,
PutLicenseResponse, PutLicenseRequestBuilder> {

    public PutLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, PutLicenseAction.INSTANCE);
    }

    public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
        super(client, action, new PutLicenseRequest());
    }

    /**
     * Sets the license
     *
     * @param license license
     * @return this builder
     */
    public PutLicenseRequestBuilder setLicense(License license) {
        request.license(license);
        return this;
    }

    public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
        request.license(licenseSource, xContentType);
        return this;
    }
}
public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}
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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.rest.RestStatus;
import java.util.stream.StreamSupport;

public class LicenseUtils {

    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

    /**
     * Exception to be thrown when a feature action requires a valid license, but license
     * has expired
     *<code>feature</code> accessible through { @link #EXPIRED_FEATURE_METADATA} in the
     * exception's rest header
     */
    public static ElasticsearchSecurityException newComplianceException(String feature) {
        ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for
        [{"},
            RestStatus.FORBIDDEN, feature);
        e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
        return e;
    }

    /**
     * Checks if a given { @link ElasticsearchSecurityException} refers to a feature that
     * requires a valid license, but the license has expired.
     */
    public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
        return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
    }

    public static boolean licenseNeedsExtended(License license) {
        return "basic".equals(license.type()) && license.expiryDate() !=
/**
 * Checks if the signature of a self generated license with older version needs to be
 * recreated with the new key
 */
public static boolean signatureNeedsUpdate(License license, DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method when adding a new version";

    return ("basic".equals(license.type()) || "trial".equals(license.type())) &&
           // only upgrade signature when all nodes are ready to deserialize the new signature
           (license.version() < License.VERSION_CRYPTO_ALGORITHMS &&
            compatibleLicenseVersion(currentNodes) == License.VERSION_CRYPTO_ALGORITHMS
           );
}

public static int compatibleLicenseVersion(DiscoveryNodes currentNodes) {
    assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method when adding a new version";

    if (StreamSupport.stream(currentNodes.spliterator(), false)
         .allMatch(node -> node.getVersion().onOrAfter(Version.V_6_4_0))) {
        // License.VERSION_CRYPTO_ALGORITHMS was introduced in 6.4.0
        return License.VERSION_CRYPTO_ALGORITHMS;
    } else {
        return License.VERSION_START_DATE;
    }
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetBasicStatus extends XPackRestHandler {

    RestGetBasicStatus(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        return channel -> client.licensing().prepareGetStartBasic().execute(new RestBuilderListener<GetBasicStatusResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder) throws Exception {
                builder.startObject();
                builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
                builder.endObject();
                return new BytesRestResponse(RestStatus.OK, builder);
            }
        });
    }

    @Override
    public String getName() {
        return "xpack_basic_status_action";
    }
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

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import java.io.IOException;

import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(DELETE, URI_BASE + "/_license", this,
            DELETE, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(DELETE, "/_licenses", this,
            "[DELETE /_licenses] is deprecated! Use " +
            "[DELETE /_xpack/license] instead.",
            deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_delete_license_action";
    }

    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
            IOException {
        DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
        deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));
        deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
            deleteLicenseRequest.masterNodeTimeout()));
        return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest,
            new RestToXContentListener<>(channel));
    }
}

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 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetTrialStatus extends XPackRestHandler {
  RestGetTrialStatus(Settings settings, RestController controller) {
    super(settings);
    controller.registerHandler(GET, URI_BASE + "/license/trial_status", this);
  }

  @Override
  protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
    return channel -> client.licensing().prepareGetStartTrial().execute(new RestBuilderListener<GetTrialStatusResponse>(channel) {
      @Override
      public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws Exception {
        builder.startObject();
        builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());
        builder.endObject();
        return new BytesRestResponse(RestStatus.OK, builder);
      }
    });
  }

  @Override
  public String getName() {
    return "xpack_trial_status_action";
  }
}

package org.elasticsearch.license;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import java.util.UUID;

import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import java.util.UUID;
abstract class ExpirationCallback {

    static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_";

    public enum Orientation {PRE, POST}

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>max</code> and <code>min</code>
     * before license expiry.
     */
    public abstract static class Pre extends ExpirationCallback {

        /**
         * Callback schedule prior to license expiry
         *
         * @param min       latest relative time to execute before license expiry
         * @param max       earliest relative time to execute before license expiry
         * @param frequency interval between execution
         */
        Pre(TimeValue min, TimeValue max, TimeValue frequency) {
            super(Orientation.PRE, min, max, frequency);
        }
    }

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>min</code> and <code>max</code>
     * after license expiry.
     */
    public abstract static class Post extends ExpirationCallback {

        /**
         * Callback schedule after license expiry
         *
         * @param min       earliest relative time to execute after license expiry
         * @param max       latest relative time to execute after license expiry
         * @param frequency interval between execution
         */
        Post(TimeValue min, TimeValue max, TimeValue frequency) {
            super(Orientation.POST, min, max, frequency);
        }
    }

    private final String id;
    private final Orientation orientation;
    private final long min;
private final long max;
private final long frequency;

private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
    this.orientation = orientation;
    this.min = (min == null) ? 0 : min.getMillis();
    this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
    this.frequency = frequency.getMillis();
    this.id = String.join(“”, EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
}

public final String getId() {
    return id;
}

public final long getFrequency() {
    return frequency;
}

/**
 * Calculates the delay for the next trigger time. When <code>now</code> is in a
 * valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
 * When <code>now</code> is before the time bracket, than delay to the start of the
 * time bracket and when <code>now</code> is passed the valid time bracket, the delay
 * is <code>null</code>
 * @param expirationDate license expiry date in milliseconds
 * @param now current time in milliseconds
 * @return time delay
 */
final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        case PRE:
            if (expirationDate >= now) {
                // license not yet expired
                long preExpiryDuration = expirationDate - now;
                if (preExpiryDuration > max) {
                    // license duration is longer than maximum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(preExpiryDuration - max);
                } else if (preExpiryDuration <= max && preExpiryDuration >= min) {
                    // no delay in valid time bracket
                    delay = TimeValue.timeValueMillis(0);
                } else {
                    // passed last match time
                    delay = null;
                }
            } else {
                // invalid after license expiry
delay = null;
}
break;
case POST:
if (expirationDate >= now) {
  // license not yet expired, delay it to the first match time
  delay = TimeValue.timeValueMillis(expirationDate - now + min);
} else {
  // license has expired
  long expiredDuration = now - expirationDate;
  if (expiredDuration < min) {
    // license expiry duration is shorter than minimum duration, delay it to the first match time
    delay = TimeValue.timeValueMillis(min - expiredDuration);
  } else if (expiredDuration >= min && expiredDuration <= max) {
    // no delay in valid time bracket
    delay = TimeValue.timeValueMillis(0);
  } else {
    // passed last match time
    delay = null;
  }
}
break;
default:
  throw new IllegalStateException("orientation [" + orientation + "] unknown");
}
return delay;
}

/**
 * @link org.elasticsearch.xpack.core.scheduler.SchedulerEngine.Schedule#nextScheduledTimeAfter(long,
 * long)
 * with respect to license expiry date
 */
public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
  TimeValue delay = delay(expiryDate, time);
  if (delay != null) {
    long delayInMillis = delay.getMillis();
    if (delayInMillis == 0L) {
      if (startTime == time) {
        // initial trigger and in time bracket, schedule immediately
        return time;
      } else {
        // in time bracket, add frequency
        return time + frequency;
      }
    } else {
      // not in time bracket
      return time + delayInMillis;
    }
  } else {
    // license not yet expired, delay it to the first match time
    delay = TimeValue.timeValueMillis(expirationDate - now + min);
  }
}
/**
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:(orientation [{}], min [{}], max [{}], freq
    [{[]}]", orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max),
    TimeValue.timeValueMillis(frequency));
}
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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODatetimeFormat;

public class DateUtils {

    private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
    private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

    public static long endOfTheDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            return dateOnlyFormatter.parseMutableDateTime(date).getMillisOfDay().set(dateOnlyFormatter.parseMutableDateTime(date).getMillisOfDay().getMaximumValue());
        }
    }
}
public static long beginningOfDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        return dateOnlyFormatter.parseDateTime(date).getMillis();
    }
}

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<PostStartTrialRequest,
    PostStartTrialResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartTrialAction(Settings settings, TransportService transportService, ClusterService
        clusterService, LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, PostStartTrialRequest::new);
        this.licenseService = licenseService;
    }
}
@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected PostStartTrialResponse newResponse() {
    return new PostStartTrialResponse();
}

@Override
protected void masterOperation(PostStartTrialRequest request, ClusterState state,
    ActionListener<PostStartTrialResponse> listener) throws Exception {
    licenseService.startTrialLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License license() {
        return license;
    }
}
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.readBoolean()) {
        license = License.readLicense(in);
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    if (license == null) {
        out.writeBoolean(false);
    } else {
        out.writeBoolean(true);
        license.writeTo(out);
    }
}

GetBasicStatusResponse() {
}

GetBasicStatusResponse(boolean eligibleToStartBasic) {
    this.eligibleToStartBasic = eligibleToStartBasic;
}

boolean isEligibleToStartBasic() {

return eligibleToStartBasic;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartBasic = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartBasic);
}

/*@Override

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest,
GetTrialStatusResponse, GetTrialStatusRequestBuilder> {

    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
        super(client, action, new GetTrialStatusRequest());
    }
}

/*@Override

class GetTrialStatusResponse extends ActionResponse {

    private boolean eligibleToStartTrial;

    GetTrialStatusResponse() {

    }

    public boolean isEligibleToStartTrial() {
        return eligibleToStartTrial;
    }

    GetTrialStatusResponse() {

    }

}*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {

@Inject
public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {

GetTrialStatusResponse(boolean eligibleToStartTrial) {
    this.eligibleToStartTrial = eligibleToStartTrial;
}

boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartTrial = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
}

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 */
super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
    indexNameExpressionResolver, GetBasicStatusRequest::new);
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetBasicStatusResponse newResponse() {
    return new GetBasicStatusResponse();
}

@Override
protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
    ActionListener<GetBasicStatusResponse> listener) throws Exception {

    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData == null) {
        listener.onResponse(new GetBasicStatusResponse(true));
    } else {
        License license = licensesMetaData.getLicense();
        listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
    }
}

@Override
protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}
*/

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* /

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetTrialStatusAction extends Action<GetTrialStatusRequest, GetTrialStatusResponse,
    GetTrialStatusRequestBuilder> {

    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";
private GetTrialStatusAction() {
    super(NAME);
}

@Override
public GetTrialStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new GetTrialStatusRequestBuilder(client, this);
}

@Override
public GetTrialStatusResponse newResponse() {
    return new GetTrialStatusResponse();
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
    GetLicenseResponse,
    GetLicenseRequestBuilder> {

    public GetLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, GetLicenseAction.INSTANCE);
    }

    /**
     * Creates new get licenses request builder
     *
     * @param client elasticsearch client
     */
    public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
        super(client, action, new GetLicenseRequest());
    }
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetBasicStatusRequestBuilder extends ActionRequestBuilder<GetBasicStatusRequest,
GetBasicStatusResponse,
GetBasicStatusRequestBuilder> {

    GetBasicStatusRequestBuilder(ElasticsearchClient client, GetBasicStatusAction action) {
        super(client, action, new GetBasicStatusRequest());
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public boolean isAcknowledged() {
        return acknowledge;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        acknowledge = in.readBoolean();
    }
}
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeBoolean(acknowledge);
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;

public class GetBasicStatusAction extends Action<GetBasicStatusRequest, GetBasicStatusResponse, GetBasicStatusRequestBuilder> {

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/basic_status";

    private GetBasicStatusAction() {
        super(NAME);
    }

    @Override
    public GetBasicStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetBasicStatusRequestBuilder(client, this);
    }

    @Override
    public GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest,
PutLicenseResponse> {

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService,
    ClusterService clusterService,
            LicenseService licenseService, ThreadPool threadPool,
            ActionFilters actionFilters,
            IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService,
                PutLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final PutLicenseRequest request, ClusterState state, final
                                        ActionListener<PutLicenseResponse> listener) throws ElasticsearchException {
        licenseService.registerLicense(request, listener);
    }
}
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }
    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.",
                                   RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);
    
    private final boolean isTrialStarted;
    private final String errorMessage;
    private final RestStatus restStatus;

    Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
        this.isTrialStarted = isTrialStarted;
        this.errorMessage = errorMessage;
        this.restStatus = restStatus;
    }

    boolean isTrialStarted() {
        return isTrialStarted;
    }
}
String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
    }
this.acknowledgeMessages = acknowledgeMessages;
} else {
    this.acknowledgeMessages = Collections.emptyMap();
}

@ Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    } else {
        if (status == Status.UPGRADED_TO_TRIAL) {
            out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
        } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
            out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
        } else {
            throw new IllegalArgumentException("Starting trial on node with version [" + Version.CURRENT + "] requires " + 
                "acknowledgement parameter.");
        }
    }
}

Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}

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*/
package org.elasticsearch.license;
import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;

/**
 * Responsible for verifying signed licenses
 */
public class LicenseVerifier {

    /**
     * verifies the license content with the signature using the packaged public key
     * @param license to verify
     * @return true if valid, false otherwise
     */
    public static boolean verifyLicense(final License license, byte[] publicKeyData) {
        byte[] signedContent = null;
        byte[] publicKeyFingerprint = null;
        try {
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
            int version = byteBuffer.getInt();
            int magicLen = byteBuffer.getInt();
            byte[] magic = new byte[magicLen];
            byteBuffer.get(magic);
            int hashLen = byteBuffer.getInt();
            publicKeyFingerprint = new byte[hashLen];
            byteBuffer.get(publicKeyFingerprint);
            int signedContentLen = byteBuffer.getInt();
            signedContent = new byte[signedContentLen];
            byteBuffer.get(signedContent);
XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
Signature rsa = Signature.getInstance("SHA512withRSA");
rsa.initVerify(CryptUtils.readPublicKey(publicKeyData));
BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
BytesRef ref;
while((ref = iterator.next()) != null) {
    rsa.update(ref.bytes, ref.offset, ref.length);
}
return rsa.verify(signedContent);
} catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
    throw new IllegalStateException(e);
} finally {
    if (signedContent != null) {
        Arrays.fill(signedContent, (byte) 0);
    }
}

public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        publicKeyBytes = out.toByteArray();
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
    return verifyLicense(license, publicKeyBytes);
}

public static boolean verifyLicense(License license, byte[] publicKeyBytes) {
    final byte[] signedContent = license.getSignature().toByteArray();
    Signature rsa = Signature.getInstance("SHA512withRSA");
    rsa.initVerify(publicKeyBytes);
    BytesRefIterator iterator = BytesReference.bytes(signedContent).iterator();
    BytesRef ref;
    while((ref = iterator.next()) != null) {
        rsa.update(ref.bytes, ref.offset, ref.length);
    }
    return rsa.verify(signedContent);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {
    public GetTrialStatusRequest() {
    }

    @Override
}

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public ActionRequestValidationException validate() {
    return null;
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;
import static org.elasticsearch.rest.RestRequest.Method.PUT;

public class RestPutLicenseAction extends XPackRestHandler {
    public RestPutLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(POST, URI_BASE + "/license", this,
            POST, "/_license", deprecationLogger);
        controller.registerWithDeprecatedHandler(PUT, URI_BASE + "/license", this,
            PUT, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(POST, "/_licenses", this,
            "[POST /_licenses] is deprecated! Use " +
            "[POST /_xpack/license] instead.",
            deprecationLogger);
        controller.registerAsDeprecatedHandler(PUT, "/_licenses", this,
            "[PUT /_licenses] is deprecated! Use " +
            "[PUT /_xpack/license] instead.",
            deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_put_license_action";
    }
}
@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    if (request.hasContent() == false) {
        throw new IllegalArgumentException("The license must be provided in the request body");
    }

    PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
    putLicenseRequest.license(request.content(), request.getXContentType());
    putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
    putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
    putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
        putLicenseRequest.masterNodeTimeout()));

    if ("basic".equals(putLicenseRequest.license().type())) {
        throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST "+
            "/_xpack/license/start_basic API to install a basic license that does not expire.");
    }

    return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest,
        new RestToXContentListener<>(channel));
}
}

@override
public GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

    public GetBasicStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

    public GetBasicStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

public class LicensingClient {

    private final ElasticsearchClient client;

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public PutLicenseRequestBuilder preparePutLicense(License license) {
        return new PutLicenseRequestBuilder(client).setLicense(license);
    }

    public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
        client.execute(PutLicenseAction.INSTANCE, request, listener);
    }

    public GetLicenseRequestBuilder prepareGetLicense() {
        return new GetLicenseRequestBuilder(client);
    }

    public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
        client.execute(GetLicenseAction.INSTANCE, request, listener);
    }

    public DeleteLicenseRequestBuilder prepareDeleteLicense() {
        return new DeleteLicenseRequestBuilder(client);
    }

    public void deleteLicense(DeleteLicenseRequest request, ActionListener<AcknowledgedResponse> listener) {
        client.execute(DeleteLicenseAction.INSTANCE, request, listener);
    }

    public PostStartTrialRequestBuilder preparePostStartTrial() {
        return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
    }

    public GetTrialStatusRequestBuilder prepareGetStartTrial() {
        return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
    }
}
public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
    client.execute(PostStartTrialAction.INSTANCE, request, listener);
}

public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
    client.execute(PostStartBasicAction.INSTANCE, request, listener);
}

public PostStartBasicRequestBuilder preparePostStartBasic() {
    return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
}

public GetBasicStatusRequestBuilder prepareGetStartBasic() {
    return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
}

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ContextPreservingActionListener;
import org.elasticsearch.client.Client;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.protocol.xpack.XPackInfoRequest;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.protocol.xpack.license.LicenseStatus;
import org.elasticsearch.transport.RemoteClusterAware;
import org.elasticsearch.xpack.core.action.XPackInfoAction;
import java.util.EnumSet;
import java.util.Iterator;
import java.util.List;
import java.util.Locale;
import java.util.concurrent.atomic.AtomicReference;
import java.util.function.Predicate;
import java.util.stream.Collectors;

public final class RemoteClusterLicenseChecker {

    /**
     * Checks remote clusters for license compatibility with a specified license predicate.
     */

    public final class RemoteClusterLicenseChecker {
/**
 * Encapsulates the license info of a remote cluster.
 */
public static final class RemoteClusterLicenseInfo {

    private final String clusterAlias;

    /**
     * The alias of the remote cluster.
     * @return the cluster alias
     */
    public String clusterAlias() {
        return clusterAlias;
    }

    private final XPackInfoResponse.LicenseInfo licenseInfo;

    /**
     * The license info of the remote cluster.
     * @return the license info
     */
    public XPackInfoResponse.LicenseInfo licenseInfo() {
        return licenseInfo;
    }

    RemoteClusterLicenseInfo(final String clusterAlias, final XPackInfoResponse.LicenseInfo licenseInfo) {
        this.clusterAlias = clusterAlias;
        this.licenseInfo = licenseInfo;
    }

    }

/**
 * Encapsulates a remote cluster license check. The check is either successful if the license of the remote cluster is compatible with
 * the predicate used to check license compatibility, or the check is a failure.
 */
public static final class LicenseCheck {

    private final RemoteClusterLicenseInfo remoteClusterLicenseInfo;

    /**
     * The remote cluster license info. This method should only be invoked if this instance represents a failing license check.
     * @return the remote cluster license info
     */
    public XPackInfoResponse.LicenseInfo remoteClusterLicenseInfo() {
        return remoteClusterLicenseInfo.licenseInfo();
    }

    LicenseCheck(RemoteClusterLicenseInfo remoteClusterLicenseInfo) {
        this.remoteClusterLicenseInfo = remoteClusterLicenseInfo;
    }

    }

public RemoteClusterLicenseInfo remoteClusterLicenseInfo() {
    assert isSuccess() == false;
    return remoteClusterLicenseInfo;
}

private static final LicenseCheck SUCCESS = new LicenseCheck(null);

/**
 * A successful license check.
 * @return a successful license check instance
 */
public static LicenseCheck success() {
    return SUCCESS;
}

/**
 * Test if this instance represents a successful license check.
 * @return true if this instance represents a successful license check, otherwise false
 */
public boolean isSuccess() {
    return this == SUCCESS;
}

/**
 * Creates a failing license check encapsulating the specified remote cluster license info.
 * @param remoteClusterLicenseInfo the remote cluster license info
 * @return a failing license check
 */
public static LicenseCheck failure(final RemoteClusterLicenseInfo remoteClusterLicenseInfo) {
    return new LicenseCheck(remoteClusterLicenseInfo);
}

private LicenseCheck(final RemoteClusterLicenseInfo remoteClusterLicenseInfo) {
    this.remoteClusterLicenseInfo = remoteClusterLicenseInfo;
}

private final Client client;
private final Predicate<License.OperationMode> predicate;

/**
 * Constructs a remote cluster license checker with the specified license predicate for checking license compatibility. The predicate
* does not need to check for the active license state as this is handled by the remote cluster license checker.
* 
* @param client the client
* @param predicate the license predicate
 */
public RemoteClusterLicenseChecker(final Client client, final Predicate<License.OperationMode> predicate) {
    this.client = client;
    this.predicate = predicate;
}

public static boolean isLicensePlatinumOrTrial(final XPackInfoResponse.LicenseInfo licenseInfo) {
    final License.OperationMode mode = License.OperationMode.resolve(licenseInfo.getMode());
    return mode == License.OperationMode.PLATINUM || mode == License.OperationMode.TRIAL;
}

/**
 * Checks the specified clusters for license compatibility. The specified callback will be invoked once if all
 * clusters are
 * license-compatible, otherwise the specified callback will be invoked once on the first cluster that is not license-
 * compatible.
 * 
 * @param clusterAliases the cluster aliases to check
 * @param listener a callback
 */
public void checkRemoteClusterLicenses(final List<String> clusterAliases, final ActionListener<LicenseCheck> listener) {
    final Iterator<String> clusterAliasesIterator = clusterAliases.iterator();
    if (clusterAliasesIterator.hasNext() == false) {
        listener.onResponse(LicenseCheck.success());
        return;
    }
    final AtomicReference<String> clusterAlias = new AtomicReference<>();

    final ActionListener<XPackInfoResponse> infoListener = new ActionListener<XPackInfoResponse>() {
        @Override
        public void onResponse(final XPackInfoResponse xPackInfoResponse) {
            final XPackInfoResponse.LicenseInfo licenseInfo = xPackInfoResponse.getLicenseInfo();
            if ((licenseInfo.getStatus() == LicenseStatus.ACTIVE) == false
                || predicate.test(License.OperationMode.resolve(licenseInfo.getMode())) == false) {
                listener.onResponse(LicenseCheck.failure(new RemoteClusterLicenseInfo(clusterAlias.get(), licenseInfo)));
                return;
            }
            if (clusterAliasesIterator.hasNext()) {
                clusterAlias.set(clusterAliasesIterator.next());

                @Override
                public void onResponse(final XPackInfoResponse xPackInfoResponse) {
                    final XPackInfoResponse.LicenseInfo licenseInfo = xPackInfoResponse.getLicenseInfo();
                    if ((licenseInfo.getStatus() == LicenseStatus.ACTIVE) == false
                        || predicate.test(License.OperationMode.resolve(licenseInfo.getMode())) == false) {
                        listener.onResponse(LicenseCheck.failure(new RemoteClusterLicenseInfo(clusterAlias.get(), licenseInfo)));
                        return;
                    }
                    if (clusterAliasesIterator.hasNext()) {
                        clusterAlias.set(clusterAliasesIterator.next());
                    }
// recurse to the next cluster
remoteClusterLicense(clusterAlias.get(), this);
} else {
    listener.onResponse(LicenseCheck.success());
}
}

@Override
public void onFailure(final Exception e) {
    final String message = "could not determine the license type for cluster [" + clusterAlias.get() + "]";
    listener.onFailure(new ElasticsearchException(message, e));
}
}

// check the license on the first cluster, and then we recursively check licenses on the remaining clusters
clusterAlias.set(clusterAliasesIterator.next());
remoteClusterLicense(clusterAlias.get(), infoListener);
}

private void remoteClusterLicense(final String clusterAlias, final ActionListener<XPackInfoResponse> listener) {
    final ThreadContext threadContext = client.threadPool().getThreadContext();
    final ContextPreservingActionListener<XPackInfoResponse> contextPreservingActionListener =
        new ContextPreservingActionListener<>(threadContext.newRestorableContext(false), listener);
    try (ThreadContext.StoredContext ignore = threadContext.stashContext()) {
        // we stash any context here since this is an internal execution and should not leak any existing context
        // information
        threadContext.markAsSystemContext();

        final XPackInfoRequest request = new XPackInfoRequest();
        request.setCategories(EnumSet.of(XPackInfoRequest.Category.LICENSE));
        try {
            client.getRemoteClusterClient(clusterAlias).execute(XPackInfoAction.INSTANCE, request,
                contextPreservingActionListener);
        } catch (final Exception e) {
            contextPreservingActionListener.onFailure(e);
        }
    }
}

/**
 * Predicate to test if the index name represents the name of a remote index.
 *
 * @param index the index name
 * @return true if the collection of indices contains a remote index, otherwise false
 */
public static boolean isRemoteIndex(final String index) {
    return index.indexOf(RemoteClusterAware.REMOTE_CLUSTER_INDEX_SEPARATOR) != -1;
}
/**
 * Predicate to test if the collection of index names contains any that represent the name of a remote index.
 *
 * @param indices the collection of index names
 * @return true if the collection of index names contains a name that represents a remote index, otherwise false
 */
public static boolean containsRemoteIndex(final List<String> indices) {
    return indices.stream().anyMatch(RemoteClusterLicenseChecker::isRemoteIndex);
}

/**
 * Filters the collection of index names for names that represent a remote index. Remote index names are of the
 * form
 * @param indices the collection of index names
 * @return list of index names that represent remote index names
 */
public static List<String> remoteIndices(final List<String> indices) {
    return indices.stream().filter(RemoteClusterLicenseChecker::isRemoteIndex).collect(Collectors.toList());
}

/**
 * Extract the list of remote cluster aliases from the list of index names. Remote index names are of the form
 * @param indices the collection of index names
 * @return the remote cluster names
 */
public static List<String> remoteClusterAliases(final List<String> indices) {
    return indices.stream()
        .filter(RemoteClusterLicenseChecker::isRemoteIndex)
        .map(index -> index.substring(0, index.indexOf(RemoteClusterAware.REMOTE_CLUSTER_INDEX_SEPARATOR))
            .distinct()
            .collect(Collectors.toList());
}

/**
 * Constructs an error message for license incompatibility.
 *
 * @param feature                  the name of the feature that initiated the remote cluster license check.
 * @param remoteClusterLicenseInfo the remote cluster license info of the cluster that failed the license check
 * @return an error message representing license incompatibility
 */
public static String buildErrorMessage(
    final String feature,
    final RemoteClusterLicenseInfo remoteClusterLicenseInfo,
    final Predicate<XPackInfoResponse.LicenseInfo> predicate) {
    final StringBuilder error = new StringBuilder();
    if (remoteClusterLicenseInfo.licenseInfo().getStatus() != LicenseStatus.ACTIVE) {
        error.append(String.format(Locale.ROOT, "the license on cluster [%s] is not active", remoteClusterLicenseInfo.clusterAlias()));
    } else {
        assert predicate.test(remoteClusterLicenseInfo.licenseInfo()) == false : "license must be incompatible to build error message";
        final String message = String.format(
            Locale.ROOT,
            "the license mode [%s] on cluster [%s] does not enable [%s]",
            License.OperationMode.resolve(remoteClusterLicenseInfo.licenseInfo().getMode()),
            remoteClusterLicenseInfo.clusterAlias(),
            feature);
        error.append(message);
    }
    return error.toString();
}

package org.elasticsearch.license;

import org.elasticsearch.Version;

/**
 * Marker interface for callbacks that are invoked when the license state changes.
 */
@FunctionalInterface
public interface LicenseStateListener {

    /**
     * Callback when the license state changes. See {XPackLicenseState#update(License.OperationMode,
     * boolean, Version}).
     */
    void licenseStateChanged();
}
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;

public class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse, PutLicenseRequestBuilder> {

    public static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    private PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PutLicenseRequestBuilder(client, this);
    }
}

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;

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*/
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

public class StartTrialClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all platinum features. " +
                "By starting this trial, you agree that it is subject to the terms and conditions at" +
                " https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
                "the \"acknowledge=true\" parameter."
;

    private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security",
            new String[] {
                "With a trial license, X-Pack security features are available, but are not enabled by default."});

    private final Logger logger;
    private final String clusterName;
    private final PostStartTrialRequest request;
    private final ActionListener<PostStartTrialResponse> listener;
    private final Clock clock;
    
    StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request,
            ActionListener<PostStartTrialResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("started self generated trial license: {}", oldLicensesMetaData);
        if (request.isAcknowledged() == false) {
            listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT,
                    ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
        } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
            listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
        } else {
            listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
        }
    }
}
@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
    if (request.isAcknowledged() == false) {
        return currentState;
    } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
        long issueDate = clock.millis();
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo(clusterName)
            .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
            .issueDate(issueDate)
            .type(request.getType())
            .expiryDate(expiryDate);
        License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
        LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
        mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    } else {
        return currentState;
    }
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during 
\[\]", source), e);
    listener.onFailure(e);
}

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*/
package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest,
PostStartTrialResponse, PostStartTrialRequestBuilder> {


PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {
    super(client, action, new PostStartTrialRequest());
}

public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.GetLicenseRequest;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetLicenseAction extends TransportMasterNodeReadAction<GetLicenseRequest,
GetLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportGetLicenseAction(Settings settings, TransportService transportService, ClusterService
    clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver,
        GetLicenseRequest::new);
        this.licenseService = licenseService;
    }
}
@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected GetLicenseResponse newResponse() {
    return new GetLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

@Override
protected void masterOperation(final GetLicenseRequest request, ClusterState state, final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
    listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;
import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;
public class PostStartTrialAction extends Action<PostStartTrialRequest, PostStartTrialResponse, PostStartTrialRequestBuilder> {

    public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
    public static final String NAME = "cluster:admin/xpack/license/start_trial";

    private PostStartTrialAction() {
        super(NAME);
    }

    @Override
    public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartTrialRequestBuilder(client, this);
    }

    @Override
    public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartTrialRequestBuilder(client, this);
    }

    @Override
    public PostStartTrialResponse newResponse() {


return new PostStartTrialResponse();
}
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartBasicAction extends Action<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

    @Override
    public PostStartBasicRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartBasicRequestBuilder(client, this);
    }

    @Override
    public PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }
}

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* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.AbstractLifecycleComponent;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.env.Environment;
import org.elasticsearch.gateway.GatewayService;
import org.elasticsearch.protocol.xpack.XPackInfoResponse;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.protocol.xpack.license.LicensesStatus;
import org.elasticsearch.protocol.xpack.license.PutLicenseResponse;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import java.time.Clock;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicReference;
/**
* Service responsible for managing {@link LicensesMetaData}.
* <p>
* On the master node, the service handles updating the cluster state when a new license is registered.
* It also listens on all nodes for cluster state updates, and updates {@link XPackLicenseState} when
* the license changes are detected in the cluster state.
*/
public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
SchedulerEngine.Listener {
public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new
Setting<>("xpack.license.self_generated.type",
(s) -> "basic", (s) -> {

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if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
    return s;
} else {
    throw new IllegalArgumentException("Illegal self generated license type [" + s + "]]. Must be trial or basic.");
}

ifACS, Setting.Property.NodeScope);

// pkg private for tests
static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
TimeValue.timeValueHours(30 * 24);

static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

/**
 * Duration of grace period after a license has expired
 */
static final TimeValue GRACE_PERIOD_DURATION = days(7);

public static final long BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS =
XPackInfoResponse.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;

private final ClusterService clusterService;

/**
 * The xpack feature state to update when license changes are made.
 */
private final XPackLicenseState licenseState;

/**
 * Currently active license
 */
private final AtomicReference<License> currentLicense = new AtomicReference<>();
private SchedulerEngine scheduler;
private final Clock clock;

/**
 * File watcher for operation mode changes
 */
private final OperationModeFileWatcher operationModeFileWatcher;

/**
 * Callbacks to notify relative to license expiry
 */
private final List<ExpirationCallback> expirationCallbacks = new ArrayList<>();

/**
 * Max number of nodes licensed by generated trial license
 */
static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final DateFormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMM dd, yyyy", Locale.ROOT);

private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " +
"please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env, ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(settings, clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, XPackPlugin.resolveConfigFile(env, "license_mode"), logger, () -> updateLicenseState(getLicensesMetaData()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License [{} ] on [{}].
# If you have a new license, please update it. Otherwise, please reach out to
# your support contact.\n# ", expiredMsg, DATE_FORMATTER.printer().print(expirationMillis));
    if (expired) {
        general = general.toUpperCase(Locale.ROOT);
    }
    StringBuilder builder = new StringBuilder(general);
    builder.append(System.lineSeparator());
    if (expired) {
        builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
    } else {
        builder.append("# Commercial plugins operate with reduced functionality on license expiration:");
    }
    XPackLicenseState.EXPIRATION_MESSAGES.forEach((feature, messages) -> {
        if (messages.length > 0) {
            builder.append(System.lineSeparator());
            builder.append("# - ");
            builder.append(feature);
            for (String message : messages) {
private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            // logged when grace period begins
            logExpirationWarning(license.expiryDate(), true);
        }
    });
}

/**
 * Registers new license in the cluster
 * Master only operation. Installs a new license on the master provided it is VALID
 */
public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener) {
    final License newLicense = request.license();
    final long now = clock.millis();
    if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() > now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
    } else if (newLicense.type().equals("basic")) {
        listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed."));
    } else if (newLicense.expiryDate() < now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
    } else {
        if (!request.acknowledged()) {

final License currentLicense = getLicense();
if (currentLicense != null) {
    Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
    if (acknowledgeMessages.isEmpty() == false) {
        // needs acknowledgement
        listener.onResponse(new PutLicenseResponse(false, LicensesStatus.VALID,
                ACKNOWLEDGEMENT_HEADER,
                acknowledgeMessages));
        return;
    }
}
}
}

if (XPackSettings.SECURITY_ENABLED.get(settings)) {
    // TODO we should really validate that all nodes have xpack installed and are consistently configured but this
    // should happen on a different level and not in this code
    if (newLicense.isProductionLicense() && XPackSettings.TRANSPORT_SSL_ENABLED.get(settings) == false && isProductionMode(settings, clusterService.localNode())) {
        // security is on but TLS is not configured we gonna fail the entire request and throw an exception
        throw new IllegalStateException("Cannot install a \[" + newLicense.operationMode() + "] license unless TLS is configured or security is disabled");
    } else if (XPackSettings.FIPS_MODE_ENABLED.get(settings) && newLicense.operationMode() != License.OperationMode.PLATINUM && newLicense.operationMode() != License.OperationMode.TRIAL) {
        throw new IllegalStateException("Cannot install a \[" + newLicense.operationMode() + "] license unless FIPS mode is disabled");
    }
}
}

clusterService.submitStateUpdateTask("register license \[" + newLicense.uid() + "]", new AckedClusterStateUpdateTask<PutLicenseResponse>(request, listener) { 
    @Override
    protected PutLicenseResponse newResponse(boolean acknowledged) {
        return new PutLicenseResponse(acknowledged, LicensesStatus.VALID);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    MetaData currentMetadata = currentState.metaData();
    LicensesMetaData licensesMetadata = currentMetadata.custom(LicensesMetaData.TYPE);
    Version trialVersion = null;
    if (licensesMetadata != null) {
        trialVersion = licensesMetadata.getMostRecentTrialVersion();
    }
}
public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) {
    Map<String, String[]> acknowledgeMessages = new HashMap<>();
    if (!License.isAutoGeneratedLicense(currentLicense.signature()) && currentLicense.issueDate() > newLicense.issueDate()) {
        acknowledgeMessages.put("license", new String[]{"The new license is older than the currently installed license. " + "Are you sure you want to override the current license?"});
    }
    XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
        String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
        if (messages.length > 0) {
            acknowledgeMessages.put(feature, messages);
        }
    });
    return acknowledgeMessages;
}

private static TimeValue days(int days) {
    return TimeValue.timeValueHours(days * 24);
}

@Override
public void triggered(SchedulerEngine.Event event) {
    final LicensesMetaData licensesMetaData = getLicensesMetaData();
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license, licensesMetaData.getMostRecentTrialVersion());
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}
* Remove license from the cluster state metadata
*/
public void removeLicense(final DeleteLicenseRequest request, final ActionListener<ClusterStateUpdateResponse> listener) {
    clusterService.submitStateUpdateTask("delete license",
        new AckedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
            @Override
            protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                return new ClusterStateUpdateResponse(acknowledged);
            }

            @Override
            public ClusterState execute(ClusterState currentState) throws Exception {
                MetaData metaData = currentState.metaData();
                final LicensesMetaData currentLicenses = metaData.custom(LicensesMetaData.TYPE);
                if (currentLicenses.getLicense() != LicensesMetaData.LICENSE_TOMBSTONE) {
                    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
                    LicensesMetaData newMetadata = new LicensesMetaData(LicensesMetaData.LICENSE_TOMBSTONE,
                        currentLicenses.getMostRecentTrialVersion());
                    mdBuilder.putCustom(LicensesMetaData.TYPE, newMetadata);
                    return ClusterState.builder(currentState).metaData(mdBuilder).build();
                } else {
                    return currentState;
                }
            }
        });
}

public License getLicense() {
    final License license = getLicense(clusterService.state().metaData());
    return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
}

private LicensesMetaData getLicensesMetaData() {
    return this.clusterService.state().metaData().custom(LicensesMetaData.TYPE);
}

void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
    if (VALID_TRIAL_TYPES.contains(request.getType()) == false) {
        throw new IllegalArgumentException("Cannot start trial of type ", request.getType() + ". Valid trial types are ", + VALID_TRIAL_TYPES + ",");
    }
    StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock,
        request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}
void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
    clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
            new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
}

@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) == false
            &&
            clusterState.nodes().getMasterNode() != null &&
            XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
            if (clusterState.getNodes().isLocalNodeElectedMaster() &&
                    (noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
                // triggers a cluster changed event eventually notifying the current licensee
                registerOrUpdateSelfGeneratedLicense();
            }
        }
    }
}

@Override
protected void doStop() throws ElasticsearchException {
    clusterService.removeListener(this);
    scheduler.stop();
    // clear current license
    currentLicense.set(null);
}
```java
@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on @link org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
    final ClusterState previousClusterState = event.previousState();
    final ClusterState currentClusterState = event.state();
    if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
        if (XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState) == false) {
            logger.debug("cannot add license to cluster as the following nodes might not understand the license metadata: [ ]", () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
            return;
        }
        final LicensesMetaData prevLicensesMetaData = previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        final LicensesMetaData currentLicensesMetaData = currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        if (logger.isDebugEnabled()) {
            logger.debug("previous 
| { }", prevLicensesMetaData);
            logger.debug("current 
| { }", currentLicensesMetaData);
        }
        // notify all interested plugins
        if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)
            || prevLicensesMetaData == null) {
            if (currentLicensesMetaData != null) {
                onUpdate(currentLicensesMetaData);
            }
        } else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
            onUpdate(currentLicensesMetaData);
        }
    }
    License currentLicense = null;
    boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense() == null;
    if (noLicenseInPrevMetadata == false) {
        currentLicense = prevLicensesMetaData.getLicense();
    }
    boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null ||
        currentLicensesMetaData.getLicense() == null);
    if (noLicenseInCurrentMetadata == false) {
```

currentLicense = currentLicensesMetaData.getLicense();
}

boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
// auto-generate license if no licenses ever existed or if the current license is basic and
// needs extended or if the license signature needs to be updated. this will trigger a subsequent cluster changed
event
if (currentClusterState.getNodes().isLocalNodeElectedMaster() &&
    (noLicense || LicenseUtils.licenseNeedsExtended(currentLicense) ||
     LicenseUtils.signatureNeedsUpdate(currentLicense, currentClusterState.nodes()))) {
    registerOrUpdateSelfGeneratedLicense();
}
else if (logger.isDebugEnabled()) {
    logger.debug("skipped license notifications reason: [{ }],
        GatewayService.STATE_NOT_RECOVERED_BLOCK);
}
}

private void updateLicenseState(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        updateLicenseState(getLicense(licensesMetaData), licensesMetaData.getMostRecentTrialVersion());
    }
}

protected void updateLicenseState(final License license, Version mostRecentTrialVersion) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false, mostRecentTrialVersion);
        return;
    }
    if (license != null) {
        long time = clock.millis();
        boolean active;
        if (license.expiryDate() == BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
            active = true;
        } else {
            // We subtract the grace period from the current time to avoid overflowing on an expiration
            // date that is near Long.MAX_VALUE
            active = time >= license.issueDate() && time - GRACE_PERIOD_DURATION.getMillis() <
                license.expiryDate();
        }
        licenseState.update(license.operationMode(), active, mostRecentTrialVersion);
        if (active) {
            if (time < license.expiryDate()) {
                logger.debug("license [{}] - valid", license.uid());
            } else {
                logger.warn("license [{}] - grace", license.uid());
            }
        }
    }
}
```java
/**
 * Notifies registered licensees of license state change and/or new active license
 * based on the license in <code>currentLicensesMetaData</code>.
 * Additionally schedules license expiry notifications and event callbacks
 * relative to the current license’s expiry
 */
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    final License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
            for (ExpirationCallback expirationCallback : expirationCallbacks) {
                scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
                        (startTime, now) ->
                        expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
            }
            if (previousLicense != null) {
                // remove operationModeFileWatcher to gc the old license object
                previousLicense.removeOperationModeFileWatcher();
            }
            logger.info("license [{ }] mode [{ }] - valid", license.uid(),
                    license.operationMode().name().toLowerCase(Locale.ROOT));
        }
        updateLicenseState(license, currentLicensesMetaData.getMostRecentTrialVersion());
    }
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {
        if (time < license.issueDate()) {
            // when we encounter a license with a future issue date
            // which can happen with autogenerated license,
            // we want to schedule a notification on the license issue date
            // so the license is notificed once it is valid
            // see https://github.com/elastic/x-plugins/issues/983
```
return license.issueDate();
} else if (time < license.expiryDate()) {
    return license.expiryDate();
} else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
    return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
}
return -1; // license is expired, no need to check again
;
}

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license))
                || (autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
                return license;
            }
        }
    }
    return null;
}

private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {
    final boolean singleNodeDisco = "single-node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().getAddress().isLoopbackAddress();
}

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 */
package org.elasticsearch.license;
public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest, GetTrialStatusResponse> {

    @Inject
    public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService clusterService, ThreadPool threadPool, ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters, indexNameExpressionResolver, GetTrialStatusRequest::new);
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }

    @Override
    protected void masterOperation(GetTrialStatusRequest request, ClusterState state, ActionListener<GetTrialStatusResponse> listener) throws Exception {
        LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
        listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null || licensesMetaData.isEligibleForTrial()));
    }

    @Override
    protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
    }
}
public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " + "please read the following messages and call /start_basic again, this time with the \"acknowledge=true\" parameter:";

    private final Logger logger;
    private final String clusterName;
    private final PostStartBasicRequest request;
    private final ActionListener<PostStartBasicResponse> listener;
    private final Clock clock;
    private AtomicReference<Map<String, String[]>> ackMessages = new AtomicReference<>(Collections.emptyMap());

    StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request,
        ActionListener<PostStartBasicResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }
@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {  
    LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);  
    logger.debug("license prior to starting basic license: ", oldLicensesMetaData);  
    License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);  
    Map<String, String[]> acknowledgeMessages = ackMessages.get();  
    if (acknowledgeMessages.isEmpty() == false) {  
        listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages,  
                ACKNOWLEDGEMENT_HEADER));  
    } else if (oldLicense != null && oldLicense.type().equals("basic")) {  
        listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));  
    } else {  
        listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));  
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {  
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);  
    LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);  
    License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);  
    if (currentLicense == null || currentLicense.type().equals("basic") == false) {  
        long issueDate = clock.millis();  
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());  
        License.Builder specBuilder = License.builder().uid(UUID.randomUUID().toString()).issuedTo(clusterName).maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES).issueDate(issueDate).type("basic").expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);  
        License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());  
        if (request.isAcknowledged() == false && currentLicense != null) {  
            Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense, currentLicense);  
            if (ackMessages.isEmpty() == false) {  
                this.ackMessages.set(ackMessages);  
                return currentState;  
            }  
        }  
        Version trialVersion = null;  
        if (licensesMetaData != null) {  
            trialVersion = licensesMetaData.getMostRecentTrialVersion();  
        }
    LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);  
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);  
    }
}
return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{}]", source), e);
    listener.onFailure(e);
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartBasicLicense extends XPackRestHandler {

    RestPostStartBasicLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
        startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
        startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout", null));
    }

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    */
}
startBasicRequest.masterNodeTimeout());
    return channel -> client.licensing().postStartBasic(startBasicRequest, new
RestBuilderListener<PostStartBasicResponse>(channel) {
    @Override
    public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
Exception {
        PostStartBasicResponse.Status status = response.getStatus();
        response.toXContent(builder, ToXContent.EMPTY_PARAMS);
        return new BytesRestResponse(status.getRestStatus(), builder);
    }
});
}

@Override
public String getName() {
    return "xpack_start_basic_action";
}

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*@
*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.protocol.xpack.license.DeleteLicenseRequest;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,
AcknowledgedResponse> {

    private final LicenseService licenseService;

    @Inject
public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService clusterService,
   LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
   IndexNameExpressionResolver indexNameExpressionResolver) {
   super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
         indexNameExpressionResolver, DeleteLicenseRequest::new);
   this.licenseService = licenseService;
}

@Override
protected String executor() {
   return ThreadPool.Names.MANAGEMENT;
}

@Override
protected AcknowledgedResponse newResponse() {
   return new AcknowledgedResponse();
}

@Override
protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
   return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@Override
protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final ActionListener<AcknowledgedResponse> listener) throws ElasticsearchException {
   licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
      @Override
      public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
         listener.onResponse(new AcknowledgedResponse(clusterStateUpdateResponse.isAcknowledged()));
      }

      @Override
      public void onFailure(Exception e) {
         listener.onFailure(e);
      }
   });
}

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analysis/common/src/java/net/sf/snowball
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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,
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analysis-common/src/java/org/apache/lucene/analysis/es/FinnishLightStemmer.java
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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* GNU locate and its associated utilities were originally
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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Go support for Protocol Buffers - Google's data interchange format

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    Name string `json:"name,omitempty"`
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src/pcf/module.mk	src/pcf/pcf.c	src/pcf/pcf.h	src/pcf/pcfdrivr.c	src/pcf/pcfdrivr.h	src/pcf/pcferror.h	src/pcf/pcfread.c	src/pcf/pcfread.h
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be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
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''.

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 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.

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:

- The modified work must itself be a software library.
- 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.)
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.

@item
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.

@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.

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:

@enumerate

a

@item 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.)

@item 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 materials or that you have already sent this user a copy.
@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 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.

- 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:
  - 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.
  - 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.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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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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DAMAGES.
@end enumerate

@ifex
@end iftex
@end ifinfo
@end center
@end ifinfo

@page
@appendixsubsec 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.

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end example

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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
@end smallexample

This is a sample; alter the names as appropriate for your library.

That's all there is to it!

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Version 2.1, February 1999

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge 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 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 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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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".

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
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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
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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 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:

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);

public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;

public:
    static ::java::lang::Class class$;
};

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }
}
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}

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6584


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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
public abstract class Permission implements Guard, Serializable {
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();
This method returns an empty <code>PermissionCollection</code> object that can store permissions of this type, or <code>null</code> if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate <code>implies</code>.

* @return a new <code>PermissionCollection</code>

```java
public PermissionCollection newPermissionCollection()
{
    return null;
}
```

This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format:

```
(' + getClass().getName() + ' ' + getName() + ' ' + getActions + '+ ' + getClass().getName() + ' ' + getName() + ' ' + getActions + '+ ' + getClass().getName() + ' ' + getName())
```

* @return this object as a <code>String</code>

```java
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' '); 
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' '); 
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
```
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exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same class
 * java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified Permission
 * (passed as an Object) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
boolean equals (Object perm);

/**
 * @return A String representing this permission.
 */
String toString();

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/* Definitions for BSD assembler syntax for Intel 386
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   adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  fputs (.comm ", (FILE)),			
  assemble_name ((FILE), (NAME)),		
  fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line 
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  fputs (.lcomm ", (FILE)),			
  assemble_name ((FILE), (NAME)),		
  fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
  sprintf ((BUF), "+%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "+"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;

}
}

}
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__

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6602
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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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Version 3, 29 June 2007

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Developed by:

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)

" Standard preamble:

" Verbatim text

.de Sp " Vertical space (when we can't use .PP)

.if t .sp .5v

.if n .sp

.de Vb " Begin verbatim text

.ft CW

.nf

.ne \$1

.de Ve " End verbatim text

.ft R

.fi

..
Set up some character translations and predefined strings. \*(-- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C" and \*(C' expand to "" in nroff, nothing in troff, for use with C<<.

```
.tr *>(W-
.ds C+ C\v'-1p\v'-2+p\v'+1s0\v'.1v\h'-1p'
.ie n \{
 . ds -- \(*W-
 . ds PI pi
 . if (\n.(H=4u)&(1m=24u) .ds -- \(*W\v'-12u\(*W\h'-12u\-*W diablo 10 pitch
 . if (\n.(H=4u)&(1m=20u) .ds -- \(*W\v'-12u\(*W\h'-8u\-*W diablo 12 pitch
 . ds L" "
 . ds R" "
 . ds C" "
 . ds C' "
\}br\}
\}
 . ds -- \(em\}
 . ds PI \(*p
 . ds L" 
 . ds R" 
 . ds C
 . ds C'
\}br\}
```

Escape single quotes in literal strings from groff's Unicode transform.

```
.ie \n.(g .ds Aq \(aq
.el .ds Aq \\
```

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<< in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

```
de IX
.. 
.if !nF .nr F 0
.of !nF>0 \\
 . de IX
 . tm Index:\n
```
.. 
.if !nF==2 \\
 . nr % 0
 . nr F 2
 . \}
```
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

V fudge factors for nroff and troff

if n \{
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #[ \&
  ds #] \&
\}

V simple accents for nroff and troff

if n \{
  ds `' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds /
\}

V troff and (daisy-wheel) nroff accents
ds : \k:\h'-(\n(wu*8/10-l*(#H)\h]"\n:u''
ds ` \k:\h'-(\n(wu*8/10-l*(#H)\h]"\n:u''
ds ^ \k:\h'-(\n(wu*10/11-l*(#H)\h]"\n:u''
ds , \k:\h'-(\n(wu*8/10)'\h]"\n:u''
ds ~ \k:\h'-(\n(wu-l*(#H-.1m)\h]"\n:u''
ds / \k:\h'-(\n(wu*8/10-l*(#H)\h]"\n:u''

V corrections for vroff
if v .ds ~ \k:\h'-(\n(wu*9/10-l*(#H)\h]"\n:u''
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SS "TERMS AND CONDITIONS"
IX Subsection "TERMS AND CONDITIONS"
IP "0. Definitions." 4
IX Item "0. Definitions."

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@example
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You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. William Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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#
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#
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt version.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',
        ''])
# Skip imported texinfo files.
'texinfo.tex',
})

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include `.` for typos.
        ranges = '[0-9][\-0-9,.\s][s+\s]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-.]'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (r'
    # 1: 'Copyright (C)', etc.
    (\[Cc\]opyright\s+\(\[Cc\]\)\s+\[0-9]+)\s*
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    (\s*\(?\.:? + ranges + \.:?\)
    (?:\@value\{[^{}]*\})?\s*
    # 3: 'by ', if used
    (by\s+)?
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    (' + name + '\(?\s*\?\:* + name + \:')?\)')

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]', re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s).  Could be ', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))
def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ":":
self.errors.report (pathname,
    'trailing characters in @set: '
    + after_years)
return (False, orig_line, next_line)

else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report (pathname,
                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
                return (False, orig_line, next_line)
# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
  + canon_form
  + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
  canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
  self.errors.report (pathname, str (e))
  return (False, orig_line, next_line)
line = (line[:match.start (2)]
  + ('' if intro.startswith ('copyright = ') else ' ')
  + canon_form + self.separator
  + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
  intro += ' (C)'
elif intro.endswith ('(c)'):
  intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
  pathname = os.path.join (dir, filename)
  if filename.endswith ('.tmp'):
    # Looks like something we tried to create before.
    try:
      os.remove (pathname)
    except OSError:
      pass
    return
  lines = []
  changed = False
  line_filter = filter.get_line_filter (dir, filename)
  with open (pathname, 'r') as file:
prev = None
for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match(line)):
            match = self.copyright_re.search(line)
            if match:
                res = self.update_copyright(dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search(line):
            self.errors.report(pathname,
                               'unrecognised copyright: %s' % line.strip())
            lines.append(line)
            line = next_line
        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open(tmp_pathname, 'w') as file:
                for line in lines:
                    file.write(line)
            if self.use_quilt:
                subprocess.call(['quilt', 'add', pathname])
            os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]
        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', "'quilt add" files before changing them',
    self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != ':':

self.chosen_dirs.append(arg)
elif arg in self.option_handlers:
    self.option_handlers[arg](arg)
else:
    self.errors.report(None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
            self.copyright.process_tree(dir, filter)
            if count == 0:
                self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

#........................................................................
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set([
            # Not part of GCC
        ])

self.skip_files |={"test":

self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)
class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Not really part of the library
            'classpath',
            'libltdl',
        })

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])  

    self.skip_dirs |= set ([
        # Contains automatically-generated sources.
        'html',
        # The testsuite data files shouldn't be changed.
        'data',
        # Contains imported images
        'images',
    ])  

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])  

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
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self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnatools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecrement')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecrement',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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 */

By plainly marking modifications, something along the lines of adding to each file that has been changed a "Modified by Foo Bar" line underneath the "Written by" line would be adequate. This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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-------  ---------
mach_override   lib/interception/mach_override

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Version 3, 29 June 2007

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```
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```

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

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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\
#define ASM_SHORT "\t.word\
#define ASM_LONG "\t.long\
#define ASM_QUAD "\t.quad" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
   fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
   ( fputs (",.comm ", (FILE)),\n    assemble_name ((FILE), (NAME)),\n    fprintf ((FILE), ",%u\n", (int(ROUNDED)))

/* This says how to output an assembler line

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs(".lcomm ", (FILE)),
assemble_name((FILE), (NAME)),
fprintf((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs(".lcomm ", (FILE)),
assemble_name((FILE), (NAME)),
fprintf((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	
if ((LOG)!=0) fprintf ((FILE), 			.align %d
", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" ==============================================================
.de Sp Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb Begin verbatim text
.ft CW
Set up some character translations and predefined strings. \*{-} will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*(C' expand to \` in nroff, nothing in troff, for use with C<<.

```
\tr \(*W-
\ds C+ C\`\'-1p\`\'-1p\`\'-2+\`\'-1p\`\'+\s0\`\'\-1p\`\'-1p\`
\ie n \{\n    \ds -- \(*W-
    \ds PI pi
    \if (\n(.H=4u)&(1m=24u) .ds -- \(*W\`\'-12u\`\'-12u\`\'-\`\` diablo 10 pitch
    \if (\n(.H=4u)&(1m=20u) .ds -- \(*W\`\'-12u\`\'-12u\`\'-8u\`\` diablo 12 pitch
    .ds L" "
    .ds R" "
    .ds C" "
    .ds C" 
    \}br\}
\el\{\n    \ds -- \(|(em|)
    \ds PI \(*p
    \ds L" "
    .ds R" "
    \ds C"
    \ds C"
    \}br\}
```

\` Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \aqaq
\el .ds Aq '

If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

```
de IX

\if !\nF .nr F 0
\if !\nF>0 \{\n```
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

```
if n \{
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds #\[ \f1
  ds #\] \fP
} if t \{
  ds #H ((1u-(\\n(.fu%2u))*.13m)
  ds #V .6m
  ds #F 0
  ds #\&
  ds #\&
} if t \{
  ds ' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds /
} if t \{
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \n\h'-(\n(.wu*10/11-*(#H)\h')\n:u'
  ds \k:\h'-(\n(.wu*8/10),h']\n:u'
  ds \~ \k:\h'-(\n(.wu-*(#H-1m)')\h']\n:u'
  ds /\k:\h'-(\n(.wu*8/10-*(#H)\h')\n:u'
} if t \{
  ds \h'-(\n(.wu*8/10-*(#H)\h').2m+*(#F,\h']\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h').2m+*(#F,\h']\n:u'
  ds \h'-(\n(.wu*10/11-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
  ds \h'-(\n(.wu*8/10-*(#H)\h')\n:u'
```
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SS "\s-1TERMS AND CONDITIONS\s0"

IX Subsection "TERMS AND CONDITIONS"

IP "0. Definitions."

IX Item "0. Definitions."

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Sp

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```

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

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```

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```

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```

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SEE ALSO  

gfdl(7), fsf-funding(7).  

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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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
#!/usr/bin/python
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ' : ' + string
    sys.stderr.write (string + \n''
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',
            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            )
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^\t')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][-0-9,\s]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + ']' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'\[(Cc)opyright\]')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\d{,1,}(?:,\d{,1,})?\s)?'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_deb.texi).
'(\s+name +(\d\s|name +')\s)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9]',
                                          re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
    elif len(string) == 4:
        return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year) for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname, 'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start(2)]
            + ('' if intro.startswith('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end(2):])

    # Use the standard (C) form.
    if intro.endswith('right'):
        intro += ' (C)'

elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                      'unrecognised copyright: %s'
                                      % line.strip())
                    lines.append(line)
                    line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
for line in lines:
    file.write (line)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ("--help", 'Print this help', self.o_help)
        self.add_option ("--quilt", '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ("--this-year", 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
            %-15s %s
' % (sys.argv[0]))
        for (n, h) in self.option_help:
            sys.stdout.write ('%s %s
' % (n, h))

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
            %-15s %s
' % (sys.argv[0]))
        for (n, h) in self.option_help:
            sys.stdout.write ('%s %s
' % (n, h))
for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))
sys.stdout.write ('nDirectories:n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
e lif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
e else:
                self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
e else:
                for chosen_dir in self.chosen_dirs:
                    canon_dir = os.path.join (chosen_dir, '')
count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
            self.copyright.process_tree (dir, filter)
e if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['math-68881.h',
                                  'ada',
                                  'testsuite',
                                  '.po',
                                  '.pot',
                                  'ONEWS',
                                  'fossilised_files']
                                 )

class TestsuiteFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set (['
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    '])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        '])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        '])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.skip_dirs |= set([
            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])
self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
def __init__ (self, errors):
    Copyright.__init__ (self, errors)
    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)
    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL,')
    self.add_external_author ('Cavium Networks,')
    self.add_external_author ('Faraday Technology Corp,')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes,')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Information Technology Industry Council,')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada,')
    self.add_external_author ('NVIDIA Corporation')
    self.add_external_author ('Peter Dimov and Multi Media Ltd,')
    self.add_external_author ('Peter Dimov')
    self.add_external_author ('Pipeline Associates, Inc,')
    self.add_external_author ('Regents of the University of California,')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc,')
    self.add_external_author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved,')
    self.add_external_author ('The Go Authors. All rights reserved,')
    self.add_external_author ('The Go Authors. All rights reserved,')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('..', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecmnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++v3', LibStdCxxFilter())
        self.add_dir('libvtv')
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
            'libatomic',
            'lib.backtrace',
            'libcpp',
            'libdecmnumber',
            'libgcc',
            'libgfortran',
            'libgomp',
            'libiberty',
            'libitm',
            'libjava',
            'libmudflap',
            'libobjc',
            'libquadmath',
            'libssp',
            'libstdc++v3',
            'libvtv',
            'lto-plugin',
            'zlib']
GCCCmdLine().main()

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Version 2, June 1991

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }

    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>\n                ");
            }
        }
        result.append("</dl>");
        return result.toString();
    } else {
        return null;
    }
}
/* Permission.java -- The superclass for all permission objects  

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package java.security; 

import gnu.java.lang.CPStringBuilder; 

import java.io.Serializable; 

/** 
 * This class is the abstract superclass of all classes that implement 
 * the concept of a permission. A permission consists of a permission name 
 * and optionally a list of actions that relate to the permission. The 
 */
actual meaning of the name of the permission is defined only in the
context of a subclass. It may name a resource to which access permissions
are granted (for example, the name of a file) or it might represent
something else entirely. Similarly, the action list only has meaning
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is <code>implies</code>. This
checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File <i>foo</i>". The permission
"Read All Files" implies that the caller has permission to read the
file <i>foo</i>.

<code>Permission</code>'s must be immutable - do not change their
state after creation.

@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4
*/

```java
public abstract class Permission implements Guard, Serializable {
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }
```
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');
    return string.toString();
}
if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * 
 * @version 0.0
 * 
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * 
 * @param perm The permission to check for equality
 * 
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * 
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostname_r.m4

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#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{

    class Permission;

}
}
}

class java::security::acl::Permission : public ::java::lang::Object
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*.-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
    private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
}

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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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.

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

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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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(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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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 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.)

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1.188 glib-networking 2.56.1 :1.el7

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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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(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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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

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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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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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commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
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/socketaddr.h: Move to ...
* sysdeps/unix/bsd/bits/socketaddr.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/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..d2d5234c1f1522 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 a4d35465424a61..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/cms_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cms_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-getdirentsn4__getdirentsngetdirentsn
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksgsigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksgsigaltstack
-sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksgsigsetmask
-sigstack-sigstack2sigstack
-sigvec-sigvec3__sigvecsigsigvec
-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/bsd4.4/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 sysdeps/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
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/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/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

1.191 glibc-common 2.17 :292.el7

1.192 glusterfs 6.5 :1.el7

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**1.194 glusterfs-cli 6.5 :1.el7**

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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#.+STARTUP: showall

* DNS resolver (dirmgr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)  
dns.c - Recursive, Reentrant DNS Resolver.  

---------------------------------------------  
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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,
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* DNS resolver (dirmngr/dns.c)


dns.c - Recursive, Reentrant DNS Resolver.
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* DNS resolver (dirmngr/dns.c)

** dns.c - Recursive, Reentrant DNS Resolver.**

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1.207 goanywhere/env
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1.208 goanywhere/fs
23f6cbc242b08700091a2227e030d5d0de0a82fa

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1.209 gobject-introspection 1.56.1 :1.el7

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mgo - MongoDB driver for Go

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1.224 gopkg.in/robfig/cron.v2 v2

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1.225 gopkg.in/src-d/go-billy.v4 v4

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1.226 gopkg.in/tylerb/graceful.v1 v1

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1.230 gperftools 2.6.1 :1.el7

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

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available
from

  http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com>
  and David Slattengren <slatteng@Xinet.COM>. These files have been part
  of the original Berkeley ditroff distribution, without AT&T code, and
  are in the public domain.

The original package can be found at

  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
  and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
Hyphenation Patterns

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at
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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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EOF

1.236 grub2 2.02 :0.80.el7.centos
1.236.1 Available under license :

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
 static grub_err_t
 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
         int argc __attribute__ ((unused)),
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

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Signed-off-by: dann frazier <dann.frazier@canonical.com>
---

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
  if (err)
    return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+                      &grub_efi_system_table,
+                      sizeof (grub_efi_system_table));
+  if (err)
+    return err;
+#endif

 {  
   struct bsd_tag *tag;
   tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE		10
#define NETBSD_BTINFO_MODULES		11
#define NETBSD_BTINFO_FRAMEBUFFER
+    
+    #define NETBSD_BTINFO_USERCONFCOMMANDS  13
+    #define NETBSD_BTINFO_EFI	        14

struct grub_netbsd_bootinfo
 {
@@ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf
 #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{  
+  void *pa_systbl; /* Physical address of the EFI System Table */
+  ;
+
+} 
endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21 Stephane Rochoy <sheda>
+
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
EFI system table.

2014-06-21  Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

1.237 grub2-common 2.02 :0.80.el7.centos

1.238 grub2-pc 2.02 :0.80.el7.centos

1.238.1 Available under license :

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Version 3, 29 June 2007

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6f82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/lib/arm64/setjmp.S
@ @ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+include <grub/dl.h>

.include"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text

/*
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++ 
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5 +++++
3 files changed, 20 insertions(+)
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
   if (err)
     return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+   &grub_efi_system_table,
+   sizeof (grub_efi_system_table));
+  if (err)
+    return err;
#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
#define NETBSD_BTINFO_USERCONFCOMMANDS 13
#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
  /* Physical address of the EFI System Table */
  struct grub_netbsd_gtinfo_efi
  struct grub_netbsd_binfo_efi
++;

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+* EFI system table.

+ 2014-06-21 Stephane Rochoy <sheda>
+
+* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

1.241 grub2-tools-extra 2.02 :0.76.el7.centos
1.242 grubby 8.28 :26.el7
1.242.1 Available under license:

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1.244 Gson 2.2
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1.257 iproute 4.11.0 :25.el7

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From 74331750f118690ca3c375e52b10272b992320e7 Mon Sep 17 00:00:00 2001
From: Andrea Claudi <aclaudi@redhat.com>
Date: Mon, 29 Apr 2019 20:09:13 +0200
Subject: [PATCH] ip[6, ]tunnel: Avoid copying user-supplied interface name around

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82

commit 26111ab1dba820421ccaf283ac097a79b95023a2
Author: Phil Sutter <phil@nw1.cc>
Date: Mon Oct 2 13:46:35 2017 +0200

ip[6, ]tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_prl() and do_6rd() functions, a user-supplied 'dev' parameter is uselessly copied into a temporary buffer before passing it to ll_name_to_index() or copying into a struct ifreq. Avoid this by just caching the argv pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nw1.cc>

---

ip/ip6tunnel.c |  6 +++---
ip/iptunnel.c  | 22 +++++++++-------------
2 files changed, 12 insertions(+), 16 deletions(-)

diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
@@ -136,7 +136,7 @@ static void print_tunnel(struct ip6_tnl_parm2 *p)
 static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
 {
  int count = 0;
- char medium[IFNAMSIZ] = {};
+ const char *medium = NULL;

  while (argc > 0) {
   if (strcmp(*argv, "mode") == 0) {
@@ -180,7 +180,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
      memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
   } else if (strcmp(*argv, "encaplimit") == 0) {
    NEXT_ARG();
- strncpy(medium, *argv, IFNAMSIZ - 1);
+ medium = *argv;
   } else if (strcmp(*argv, "none") == 0) {
    NEXT_ARG();
   if (strcmp(*argv, "none") == 0) {
@@ -285,7 +285,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
      count++;
argc--; argv++; 

- if (medium[0]) {
  + if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
      fprintf(stderr, "Cannot find device \"%s\"\n", medium);
    }
  }

  if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    strncpy(medium, *argv, IFNAMSIZ - 1);
  } else if (strcmp(*argv, "ttl") == 0 ||
             strcmp(*argv, "hoplimit") == 0 ||
             strcmp(*argv, "hlim") == 0) {
    @ @ -216,7 +216,7 @@
  }

  @ @ -139,7 +139,7 @@
  }
}

struct ip_tunnel_prl p = {};
int count = 0;
-int devname = 0;
int cmd = 0;
-char medium[IFNAMSIZ] = {};
+const char *medium = NULL;

diff --git a/ip/iptunnel.c b/ip/iptunnel.c
index 105d0f5576f1a..0acfd0793d3cd 100644
--- a/ip/iptunnel.c
+++ b/ip/iptunnel.c
@@ -60,7 +60,7 @@ static void set_tunnel_proto(struct ip_tunnel_parm *p, int proto)
 static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
 {
   int count = 0;
-   char medium[IFNAMSIZ] = {};
+   const char *medium = NULL;
   int isatap = 0;

   memset(p, 0, sizeof(*p));
@@ -139,7 +139,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
   }
   else if (strcmp(*argv, "dev") == 0) {
     NEXT_ARG();
-     strncpy(medium, *argv, IFNAMSIZ - 1);
+     medium = *argv;
   } else if (strcmp(*argv, "ttl") == 0 ||
               strcmp(*argv, "hoplimit") == 0 ||
               strcmp(*argv, "hlim") == 0) {
@@ -216,7 +216,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
   }
}

- if (medium[0]) {
  + if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
      fprintf(stderr, "Cannot find device \"%s\"\n", medium);
    }
  }

  if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    strncpy(medium, *argv, IFNAMSIZ - 1);
  } else if (strcmp(*argv, "ttl") == 0 ||
             strcmp(*argv, "hoplimit") == 0 ||
             strcmp(*argv, "hlim") == 0) {
@@ -465,9 +465,8 @@ static int do_prl(int argc, char **argv)
   }
}

struct ip_tunnel_prl p = {};
int count = 0;
-int devname = 0;
int cmd = 0;
-char medium[IFNAMSIZ] = {};
+const char *medium = NULL;

while (argc > 0) {
  if (medium[0]) {
    + if (medium) {
      p->link = ll_name_to_index(medium);
      if (p->link == 0) {
        fprintf(stderr, "Cannot find device \"%s\"\n", medium);
      }
  }

  if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    strncpy(medium, *argv, IFNAMSIZ - 1);
  } else if (strcmp(*argv, "ttl") == 0 ||
              strcmp(*argv, "hoplimit") == 0 ||
              strcmp(*argv, "hlim") == 0) {
@@ -465,9 +465,8 @@ static int do_prl(int argc, char **argv)
   }
}

struct ip_tunnel_prl p = {};
int count = 0;
-int devname = 0;
int cmd = 0;
-char medium[IFNAMSIZ] = {};
+const char *medium = NULL;

while (argc > 0) {
if (strcmp(*argv, "prl-default") == 0) {
    @ @ -488.8 +487.7 @@ static int do_prl(int argc, char **argv)
count++;}
} else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    -strncpy(medium, *argv, IFNAMSIZ-1);
    -devname++;
    +medium = *argv;
} else {
    fprintf(stderr, "Invalid PRL parameter \"%s\"", *argv);
    @ @ -502.7 +500.7 @@ static int do_prl(int argc, char **argv)
} argc--; argv++;
}
@if (devname == 0) {
    +if (!medium) {
        fprintf(stderr, "Must specify device\n");
        exit(-1);
    }
    @ @ -513.9 +511.8 @@ static int do_prl(int argc, char **argv)
static int do_6rd(int argc, char **argv)
{
    struct ip_tunnel_6rd ip6rd = {};
    -int devname = 0;
    int cmd = 0;
    -char medium[IFNAMSIZ] = {};
    +const char *medium = NULL;
    inet_prefix prefix;

    while (argc > 0) {
        @ @ -537.8 +534.7 @@ static int do_6rd(int argc, char **argv)
cmd = SIOCDEL6RD;
    } else if (strcmp(*argv, "dev") == 0) {
        NEXT_ARG();
        -strncpy(medium, *argv, IFNAMSIZ-1);
        -devname++;
        +medium = *argv;
    } else {
        fprintf(stderr, "Invalid 6RD parameter \"%s\"", *argv);
        @ @ -546.7 +542.7 @@ static int do_6rd(int argc, char **argv)
    } argc--; argv++;
}
@if (devname == 0) {
    +if (!medium) {
        fprintf(stderr, "Must specify device\n");
    }
exit(-1);
}
--
2.20.1

1.258 iproute2 4.9.0 :1+deb9u1

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
January 5, 2017
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* questions.
*/

package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 * *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,  
 * for a @code java.io.FilePermission object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 */
* { @code java.lang.RuntimePermission },
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p>An important method that must be implemented by each subclass is
* the { @code implies } method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <p>Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
* 
*
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission } method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     */

}
* @param object the object being guarded (currently ignored).
* * @throws SecurityException
*     if a security manager exists and its
*     { @code checkPermission} method doesn't allow access.
* *
* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
* *
*/
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * *
 * <p>The { @code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * *
 * @param permission the permission to check against.
 * *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the { @code equals} method for making access control
 * decisions; use the { @code implies} method.
 * *
 * @param obj the object we are testing for equality with this object.
 * *
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);
/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required {code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * {code hashCode} method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 * <li>If two Permission objects are equal according to the
 * {code equals} method, then calling the {code hashCode} method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * <p>
 * For example, in the case of a {code java.io.FilePermission},
 * the name will be a pathname.
 * <p>
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 */
public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the [@code PermissionCollection.implies] method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}
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 * questions.
 */

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 */
* @return the string representation of the permission.
*/

public String toString();

}

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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese=x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese=x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese=x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese=x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese=x0208=Sazanami Gothic
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7785
# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
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import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

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    private static final String ORACLE_AFTER2012 =
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    private static final String UNICODE =
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static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                   Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
platform=bsd
/*
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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

import java.rmi.Remote;
public interface Legal extends Remote {}
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Version 2, June 1991

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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShankaiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders { 

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 */");

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),

Locale.US).get(Calendar.YEAR);

// no instantiation
private CopyrightHeaders() {
}
}
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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 */
import java.rmi.Remote;
public interface Legal extends Remote {}

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* All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
*
* <p>Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object. For example,
* for a {@code java.io.FilePermission} object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* {@code java.lang.RuntimePermission},
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p>An important method that must be implemented by each subclass is
* the {@code implies} method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <p>Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
* *
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * {@code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 *
 * @param object the object being guarded (currently ignored).
 *
 * @throws SecurityException
 *        if a security manager exists and its
 *        {@code checkPermission} method doesn't allow access.
 *
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 * *
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 */
* Do not use the `{code equals}` method for making access control
decisions; use the `{code implies}` method.
* @param obj the object we are testing for equality with this object.
* @return true if both Permission objects are equivalent.
*/

public abstract boolean equals(Object obj);

/**
* Returns the hash code value for this Permission object.
* @return a hash code value for this object.
*/

public abstract int hashCode();

/**
* Returns the name of this Permission.
* @return the name of this Permission.
*/

public final String getName() {
    return name;
}
* Returns the actions as a String. This is abstract
* so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:

```
<pre>
perm1 = new FilePermission(p1,"read,write");
perm2 = new FilePermission(p2,"write,read");
</pre>
```
* both return
* "read,write" when the { @code getActions} method is invoked.
*
* @return the actions of this Permission.
* */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */
public String toString() {
    String actions = getActions();
    if (((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + "")";
    } else {
        return "(" + getClass().getName() + " " + name + " " +
        "\"" + actions + \"\")";
    }
}

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1.275 jline 0.9.94

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1.278 jre 11.0.3+7-5~bpo9+1

1.279 json-c 0.11
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1.280 json-path 2.4.0

1.281 jtolds/gls
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1.282 Junit 4.8.2

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mgo - MongoDB driver for Go

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BSON library for Go

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {

m := &LicenseManager{}  
m.Self = ref  
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {  
am := Map.Put(&LicenseAssignmentManager{}).Reference()  
m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
body := &methods.AddLicenseBody{
Res: &types.AddLicenseResponse{  
}
}

for _, license := range m.Licenses {
if license.LicenseKey == req.LicenseKey {
body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
return body
}
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
LicenseKey: req.LicenseKey,  
Labels: req.Labels,
})
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{  
}
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  
return body
}
}
return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
            
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    infoLICENSEKey = key
    info.Labels = labels

    return info
}

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}

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Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q       float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

.hg

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package main

import "strings"

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}
// IsLegalFile returns true if the file is likely to contain some type
// of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

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#  
0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

#  
# PC Screen (console) Fonts - psf2 header  
#  
0 lelong0x864ab572 psf2 screen font data
>12 lelong&1 with Unicode index
>16 lelong%d glyphs
>28 lelong%dx
>24 lelong%dx%d

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rJ
<<?3?0000p<ffffff<-0`0<<<<fffSIIIIIII0`0`0008V000000000<~<fB--00`008818x~|0`|<|8`|00000]|]|--x00'0|--'00'0]|]|81ff
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1.287 kbd-legacy 1.15.5 :15.el7

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#
# PC Screen (console) Fonts - psf1 header
#
0   leshort  0x0436  psf screen font data
>2  byte    0     256 characters, no index
>2  byte    1     512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

#
# PC Screen (console) Fonts - psf2 header
#
0   lelong 0x864ab572 psf2 screen font data
>12 lelong&1 1  with Unicode index
>16 lelongx%b,%d glyphs
>28 lelongx%b,%d
rJ

# PC Screen (console) Fonts - psf2 header

```
```

```
1.288 kbd-misc 1.15.5 :15.el7

1.289 kernel 3.10.0 :1062.1.2.el7

1.290 kernel 3.10.0 :957.10.1

1.291 kernel-tools 3.10.0 :1062.1.2.el7

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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/* 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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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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"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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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.)

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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.

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.

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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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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:

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Appendix: How to Apply These Terms to Your New Libraries

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Linus Torvalds

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```
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13120

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/* 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
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * 10/6/97 - begin 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)
 * 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
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*
* M. Welsh, 6 July 1996
*
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            || 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
#endif
```

```c
#ifndef __LICENSE_H
#define __LICENSE_H

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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for merging the nxt2002 and nxt2004 modules into a
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1.292 kernel-tools-libs 3.10.0 :1062.el7

1.293 kernel-tools-libs 3.10.0 :1062.1.2.el7

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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.

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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"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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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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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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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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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.)

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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.

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Antonio Luna
Hari Nagalla
Nishanth Menon
Ameya Palande
Vijay Pasam
Gilbert Pinney
Omar Ramirez Luna
Ernesto Ramos
/* 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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#ifndef __LICENSE_H
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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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"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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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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
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
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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
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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) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete 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,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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

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Appendix: How to Apply These Terms to Your New Programs

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

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1.296 kibana 6.5.4
1.296.1 Available under license :
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 * the Apache License, Version 2.0 (the "License"); you may
 * use this file except in compliance with the License.
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 * http://www.apache.org/licenses/LICENSE-2.0
import { getBundledNotices } from './bundled_notices';

const concatNotices = notices => notices.map(notice => notice.text).join('
');

export async function generatePackageNoticeText(pkg) {
    const bundledNotices = concatNotices(await getBundledNotices(pkg.directory));

    const intro = `This product bundles ${pkg.name}@${pkg.version}`;
    const license = ` which is available under ${
        pkg.licenses.length > 1
        ? `the
        ${{pkg.licenses.join(', ')} licenses.}`
        : `a
        "${pkg.licenses[0]}" license.`
    }`;

    const moreInfo = bundledNotices
        ? `\n${bundledNotices}\n`
        : ` For details, see ${pkg.relative}/.`;

    return `${intro}${license}${moreInfo}`;
}

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Pretty handling of logarithmic axes.

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Set axis.mode to "log" and make the axis logarithmic using transform:

```javascript
axix: {
  mode: 'log',
  transform: function(v) {v <= 0 ? Math.log(v) / Math.LN10 : null},
  inverseTransform: function(v) {Math.pow(10, v)}
}
```

The transform filters negative and zero values, because those are invalid on logarithmic scales.

This plugin tries to create good looking logarithmic ticks, using unicode superscript characters. If all data to be plotted is between two powers of ten then the default flot tick generator and renderer are used. Logarithmic ticks are places at powers of ten and at half those values if there are not to many ticks already (e.g. [1, 5, 10, 50, 100]). For details, see https://github.com/flot/flot/pull/1328

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1.298 kmod 20 :25.el7

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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):
```python
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
    # 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'\r\n* |\r*\n/', '', line)
    line = line.strip()
    if not in_comment and '/\n' in line:
        (line, sep, comment_part) = line.partition('/\n')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '/\n' not in line:
        comment.append(line.lstrip('"').lstrip())
    elif in_comment:
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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 cmd/krb5/slave/kpropd_rpc.c

lib/gss_mechs/mech_krb5/etc/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego Mech.c

lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h

lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g DSP_name.c
lib/libgss/g DSP_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g glue.c
lib/libgss/g imp_name.c
lib/libgss/imp sec context.c
lib/libgss/g init sec context.c
lib/libgss/g initialize.c
lib/libgss/g inquire context.c
lib/libgss/g inquire cred.c
lib/libgss/g inquire_names.c
lib/libgss/g process context.c
lib/libgss/g rel_buffer.c
lib/libgss/g rel cred.c
lib/libgss/g rel name.c
lib/libgss/g rel oid_set.c
lib/libgss/g seal.c
lib/libgss/g sign.c
lib/libgss/g store cred.c
lib/libgss/g unseal.c
lib/libgss/g userok.c
lib/libgss/g utils.c
lib/libgss/g verify.c
lib/libgss/gssd_pname_to_uid.c

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uts/common/gssapi/include/mechglueP.h
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<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT: 'http://wikimns.getwikim.org/xcurdoc/',
    VERSION: '1.15.1',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
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```
lib/gssapi/generic/gssapi_err_generic.
lib/gssapi/mechglue/g_accept_sec_context.
```
class="o"/>

<code class="n">mechglue</code><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_acquire_cred</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">gssapi</span><code class="o">.</code><span class="n">g_canon_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_compare_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_context_time</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_delete_sec_context</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_dsp_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_dsp_status</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_dup_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_exp_sec_context</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_export_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_glue</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_imp_name</span><code class="o">.</code><code class="n">c</code></span></code>

<code class="o">./</code><span class="n">g_imp_sec_context</span><code class="o">.</code><code class="n">c</code></span></code>
class="o"/>
</span><span class="n">mechglue</span><span class="o"></span></span></span></span>

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and the initial implementation of incremental propagation, including
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- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.c`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/kerb5/error_tables/kdb5_err.et`
- `slave/kpropd_rpc.c`
- `slave/kproplog.c`

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.. parsed-literal::

    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
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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

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.. 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
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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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
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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1.305 krb5-libs 1.15.1 :37.el7_7.2

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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
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'\*\*\*\*\*\*\*\*\*\*\*\*\ starred comment', '', 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:
            warn(fname, ln, 'License comment missing /*)
        if 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:
            warn(fname, ln, 'License comment missing */')
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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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
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
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- \texttt{g_compare_name.c}
- \texttt{g_context_time.c}
- \texttt{g_delete_sec_context.c}
- \texttt{g_dup_name.c}
- \texttt{g_exp_sec_context.c}
- \texttt{g_acquire_cred.c}
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- \texttt{g_context_time.c}
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and the initial implementation of incremental propagation, including
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```python
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#include <ipropd_svc.c>
#include <kdb_convert.c>
#include <kdb_log.c>
#include <kdb_log.h>
#include <kdb5_err.et>
#include <kpropd_rpc.c>
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   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_export_name.c
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   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
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   lib/gssapi/mechglue/g_rel_cred.c
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.. 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
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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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lib/gssapi/mechglue/g_acquire_cred.c
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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
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and the initial implementation of incremental propagation, including
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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
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```
src/lib/gssapi
```

including the following files:

```
lib/gssapi/generic/gssapi_err_generic
```

```
lib/gssapi/mechglue/g_accept_sec_context
```

```
lib/gssapi/mechglue/g_acquire_cred
```

```
lib/gssapi/mechglue/g_canon_name
```

```
lib/gssapi/mechglue/g_compare_name
```

```
lib/gssapi/mechglue/g_context_time
```

```
lib/gssapi/mechglue/g_delete_sec_context
```

```
lib/gssapi/mechglue/g_exp_sec_context
```

```
lib/gssapi/mechglue/g_export_name
```

```
lib/gssapi/mechglue/g_glue
```

```
lib/gssapi/mechglue/g_acquire_cred
```

```
lib/gssapi/mechglue/g_canon_name
```

```
lib/gssapi/mechglue/g_compare_name
```

```
lib/gssapi/mechglue/g_context_time
```

```
lib/gssapi/mechglue/g_delete_sec_context
```
class="n">g_imp_name</span><span class="o">.</span><span class="n">c</span> <span class="o">"</span></p></span></report>

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

.. parsed-literal::

    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:

.. 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/krb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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<signature of Ty Coon>, 1 April 1989
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/* */
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* */

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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
    # 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)
        if line:
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)

1.307 kubeadm 1.15.3 :0
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package spec

// License information for the exposed API.
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Protocol Buffers for Go with Gadgets

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```go
package goautoneg

import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q             float32
    Params        map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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ffjson
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import (
    "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
    "third-party",
    "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}
if strings.HasPrefix(lowerfile, prefix) {
    return true
}
}
for _, substring := range LegalFileSubstring {
    if strings.Contains(lowerfile, substring) {
        return true
    }
}
return false

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package simulator

)

// EvalLicense is the default license
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId:        req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.
func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q          float32
    Params     map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Go support for Protocol Buffers - Google's data interchange format

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================================================================================

PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.
The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES
type Accept struct {
    Type, SubType string
    Q           float32
    Params      map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Feb, 2010

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ffjson
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package main

import ("strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
  "licence", // UK spelling
  "license", // US spelling
  "copying",
  "unlicense",
  "copyright",
  "copyleft",
  "authors",
  "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
  "legal",
  "notice",
  "disclaimer",
  "patent",
  "third-party",
}
// IsLicenseFile returns true if the filename might be contain a software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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Arran Walker <arran.walker@zopa.com>
package simulator

import (  
    "github.com/vmware/govmomi/object"
)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:     "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "dvs",
             Value: "vSphere Distributed Switch",
         },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{

for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
        body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        return body
    }
}

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:])...
            return body
        }
    }
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
info.Labels = labels

return info
}

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q     float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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tomb - support for clean goroutine termination in Go.

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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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BSON library for Go

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mgo - MongoDB driver for Go

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goproperties - properties file decoder for Go

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package simulator

import (  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
    "github.com/vmware/govmomi/vim25/soap"  
    "github.com/vmware/govmomi/vim25/types"  
)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ }
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        }
    }

    return body
}
func (m *LicenseManager) LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]),...
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: new(types.UpdateLicenseLabelResponse)
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[i], license.Labels[i+1:]),...
                } else {
                    label.Value = req.LabelValue
                }
            }
        }
    }
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }
}

//
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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mgo - MongoDB driver for Go

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

```go
func ParseAccept(header string) (accept []Accept) {
    // Parse an Accept Header string returning a sorted list of clauses.
}
```

**TYPES**

```go
type Accept struct {
    Type, SubType string
    Q         float32
    Params    map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header.

**SUBDIRECTORIES**

```
# hg

= vendor/github.com/munnerz/goautoneg/README.txt a33eda65f1bc658f358e1d690c6a93d4
```

================================================================================================

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```
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tomb - support for clean goroutine termination in Go.

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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mgo - MongoDB driver for Go

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
            
        }
        
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })
body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{};
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]
return body
}
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
label := &license.Labels[j]

if label.Key == req.LabelKey {
if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:...]
} else {
label.Value = req.LabelValue
}
return body
}
}

license.Labels = append(license.Labels, types.KeyValue{
Key: req.LabelKey,
Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
return info
}

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

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file_io/unix/mktemp.c, strings/apr_strings.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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1.317 libapr1-dev 1.5.2-5

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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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From strings/apr_strnatcmp.c, include/apr_strings.h:
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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1.322 libapt-pkg5.0 1.4.9

1.323 libassuan0 amd64:2.4.3-2

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    text-utils/hexdump-display.c
    text-utils/hexdump-parse.c
    text-utils/rev.c
    text-utils/ul.c
    The Regents of the University of California
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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
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Section 6 states terms for distribution of such executables.

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1.341 libcap 2.22 :10.el7

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1.345 libcap2 amd64:1:2.25-1

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1.348 libcollection 0.7.0 :32.el7
1.349 libcom_err 1.42.9 :16.el7

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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 the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
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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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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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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 = -f_pic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(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-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)

1.350 libcomerr2 amd64:1.43.4-2
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the GNU Public License version 2, with the exception of the lib/ext2fs
and lib/e2p libraries, which are made available under the GNU Library
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libraries which are made available under an MIT-style license. Please
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comprising the libuuid library, and the source file headers of the
libet and libss libraries for more information.

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Theodore Ts'o
23-June-2007

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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
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must be distributed under the terms of Sections 1 and 2 above on a
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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
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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
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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
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Index: tdbsa/tdb.c
===================================================================
--- 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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 ** NOTE! The following LGPL license applies to the tdb
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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_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

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Gadi Oxman, August 1995

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Version 2, June 1991

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21795
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This package was added to the e2fsprogs debian source package by Theodore Tso <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:

   http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Tso <tytso@mit.edu>

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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:
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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 EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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</pre>

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<P>If the program is interactive, make it output a short notice like this.
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<pre>
Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>
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.
</pre>

<p>The hypothetical commands <samp>`show w'</samp> and <samp>`show c'</samp> should show
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commands you use may be called something other than <samp>`show w'</samp> and
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(which makes passes at compilers) written
by James Hacker.

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

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<p>Version 2, June 1991

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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.

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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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.

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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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
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6,
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  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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- 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.

<P>
<L1> 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.

<P>
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</OL>

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<OL TYPE="a">

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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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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distribute the object code for the work under the terms of Section 6.
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whether or not they are linked directly with the Library itself.

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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
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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).

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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.>  
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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!

1.353 libcurl 7.29.0 :54.el7

1.353.1 Available under license :  
License Mixing with apps, libcurl and Third Party Libraries
====================================================================

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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libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS  http://axtls.sourceforge.net/

   (May be used for SSL/TLS support) Uses a Modified BSD-style license.

crap  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.

Kerberos

   While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

   (May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

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GNU GSS http://www.gnu.org/software/gss/

   (May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

   (Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

   (Used for IDNA support) Uses the GNU Lesser General Public
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OpenLDAP http://www.openldap.org/software/release/license.html

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libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
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1.354 libcurl3-gnutls:amd64 7.52.1-5+deb9u6

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License Mixing

 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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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## WolfSSL

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(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(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.
## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## libssh2

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1.356 libdaemon 0.14 :7.el7
1.356.1 Available under license :

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1.358 libdb-utils 5.3.21 :25.el7

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References:
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Author: Ruben Rodriguez <ruben@trisquel.info>
--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
    /*   Coded by Takuji Nishimura, considering the suggestions by    */
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-/* mt19937int.out is attached (2001/4/2)                          */
-/* Copyright (C) 1997, 1999 Makoto Matsumoto and Takuji Nishimura. */
-/* Any feedback is very welcome. For any question, comments,       */
-/* see http://www.math.keio.ac.jp/matumoto/emt.html or email        */
-/* matumoto@math.keio.ac.jp                                        */
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# written by Paul Marquess (pmqs@cpan.org)
# last modified 28th October 2007
# version 1.818
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1.366 libevent 2.0.21 :4.el7

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1.369 libfastjson 0.99.4 :3.el7

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src/gzip/zconf.h
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src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@ssrc.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiamtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef (detlef@ssrc.dec.com) also provided several generic bug fixes. Alistair G.Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([}
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^\t')
    return None
def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]\([-0-9.,\s]\|\s+and\s+\]*[0-9]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w,.-]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.  
    '([Cc]opyright'  
    '([Cc]opyrights+\([Cc]\)'  
    '([Cc]opyrights+\%s'  
    '([Cc]opyrights+\&copy;'  
    '([Cc]opyrights+\@copyright{ })'  
    'copyright = u"'  
    '@set{+copyright\[w-]+}'

    # 2: the years. Include the whitespace in the year, so that  
    # we can remove any excess.  
    '\s*\(?::\ ?+ ranges + \?,\?'  
    '\@value\{[^{}]*\}\s*\)'

    # 3: 'by ', if used  
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive  
    # spaces, so that right-margin gloss doesn't get caught  
    # (e.g. gnat_ugn.texi).  
    '(?::name + '(?::\s? + name + '+\))'?

    # A regexp for notices that might have slipped by. Just matching  
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
    # HTML header markers, so check for 'copyright' and two digits.  
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
        re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None
class BadYear():
    def __init__(self, year):
        self.year = year
    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year >= 70:
            return year + 1900
        else:
            return year
    elif len(string) == 4:
        return year
    else:
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year) for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
return years

(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
             and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('(right'):
        intro += ' (C')
    elif intro.endswith ('(c'):
        intro = intro[:-3] + '(C'
    line = line[match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                        file, line, match)
                    (this_changed, line, next_line) = res

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                    file, line, match)
                (this_changed, line, next_line) = res
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
eelif self.other_copyright_re.search(line):
    self.errors.report(pathname,
        'unrecognised copyright: %s'
% line.strip())

    lines.append(line)
    line = next_line

    # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
    if self.use_quilt:
        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n
    Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
for chosen_dir in self.chosen_dirs:
    canon_dir = os.path.join (chosen_dir, '')
    count = 0
    for (dir, filter) in self.dirs:
        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sysexit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['
            # Not part of GCC
            'math-68881.h',
        ])   
        self.skip_dirs |= set (['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set (
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set (
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
        )
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([

        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([

# Contains no copyright of its own, but quotes the GPL.
'intro.xml',
])

self.skip_dirs |= set [
    # Contains automatically-generated sources.
'html',

    # The testsuite data files shouldn't be changed.
'data',

    # Contains imported images
'images',
])

self.own_files |= set [
    # Contains markup around the copyright owner.
'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('ARM')
        self.add_package_author ('AdaCore')
        self.add_package_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_package_author ('Cavium Networks.')
        self.add_package_author ('Faraday Technology Corp.')
        self.add_package_author ('Florida State University')
        self.add_package_author ('Greg Colvin and Beman Dawes.')
        self.add_package_author ('Hewlett-Packard Company')
        self.add_package_author ('Information Technology Industry Council.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn’t really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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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.

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

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

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

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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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   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.

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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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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
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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
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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.

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@appendixsubsec Preamble

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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.

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- 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.

- 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.

- 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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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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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.

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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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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
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<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues4[Lgnu/javasound/AudioSecurityManager$Permission;
$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javasound/AudioSecurityManager$Permission;
.,-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javasound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javasound/AudioSecurityManager
Permission@1@@@
```

1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
SourceFilePermission.java
1[Ljava/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }
}
public boolean inPackage() {
    return true;
}

double inType() {
    return true;
}

double isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[]{ tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>\n");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &copy; " + tags[i].text() + "</dt>\n"");
                }
            }
            result.append("</dl>\n");
            return result.toString();
        } else {
            return null;
        }
    }
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p> The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p> Permission <code>'s must be immutable - do not change their
public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) {
            sm.checkPermission(this);
        }
    }
}
sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}

} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 */

* @param perm The permission to check for equality
*
* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*/

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public java::lang::Object
{

public:
    Permission(java::lang::String *);
    virtual void checkGuard(java::lang::Object *);
    virtual jboolean implies(java::security::Permission *) = 0;
    virtual jboolean equals(java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual java::lang::String * getName();
    virtual java::lang::String * getActions() = 0;
    virtual java::security::PermissionCollection * newPermissionCollection();
    virtual java::lang::String * toString();

private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    java::lang::String * __attribute__((aligned(__alignof__( java::lang::Object)))) name;
}

public:
    static java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface
#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}

class java::security::Permission : public java::lang::Object
{

public:
    Permission(java::lang::String *);
    virtual void checkGuard(java::lang::Object *);
    virtual jboolean implies(java::security::Permission *) = 0;
    virtual jboolean equals(java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual java::lang::String * getName();
    virtual java::lang::String * getActions() = 0;
    virtual java::security::PermissionCollection * newPermissionCollection();
    virtual java::lang::String * toString();

private:
    static const jlong serialVersionUID = -5636570222231596674LL;
    java::lang::String * __attribute__((aligned(__alignof__( java::lang::Object)))) name;
}

public:
    static java::lang::Class class$;
};

#endif // __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
namespace java
{
    namespace security
    {
        namespace acl
        {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{
    public:
        virtual jboolean equals(::java::lang::Object *) = 0;
        virtual ::java::lang::String * toString() = 0;
        static ::java::lang::Class class$;
    } __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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Version 3.1, 31 March 2009

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/* Definitions for BSD assembler syntax for Intel 386
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adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte"
#define ASM_SHORT "t.word"
#define ASM_LONG "t.long"
#define ASM_QUAD "t.quad" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
{puts (".comm ", (FILE));\n assemble_name ((FILE), (NAME));\n fprintf ((FILE), ",%u\n", (int)(ROUNDED))
/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
  (fputs(",.lcomm ", (FILE)),\ 
   assemble_name ((FILE), (NAME)),\ 
   fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
  (fputs(",.lcomm ", (FILE)),\ 
   assemble_name ((FILE), (NAME)),\ 
   fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	\n  if ((LOG)!=0) fprintf ((FILE), "t.align %d'un", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	\n  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

."
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.
."
 Standard preamble:
.
================================================================================
.de Sp ." Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
.. .de Vb ." Begin verbatim text
Set up some character translations and predefined strings.  \*-- will give an unbreakable dash, \*PI will give pi, \*L" will give a left double quote, and \*R" will give a right double quote.  \*C+ will give a nicer C++.  Capital omega is used to do unbreakable dashes and therefore won't be available. \%(C' and \%(C expand to `\" in nroff, \%(nothing in troff, for use with C<<.

\tr \%(W-.
\ds C+ C\v-.1v\h'-1p\s-2+\h'-1p+\s0v'.1v\h'-1p'
\ie n \{
  .ds -- \%(W-
  .ds PI pi
  .if \(\n(\.H=4u)&(1m=24u) .ds -- \%(W\h'-12u\h'-12u\v'.1v\h'-1p'
  .if \(\n(\.H=4u)&(1m=20u) .ds -- \%(W\h'-12u\h'-8u\v'.1v\h'-1p'
  .ds L" "
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  .ds C" "
  .ds C'
  'br\}
\el\{
  .ds -- \%(em]
  .ds PI \%(p
  .ds L" "
  .ds R" "
  .ds C'
  .ds C'
  'br\}
\l" Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \(aq
\el .ds Aq '
\l" If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.
\l" Avoid warning from groff about undefined register 'F'.
\de IX
\l"
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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```
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossel provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossel provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
        'C

# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'lt--obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
]

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?|[-0-9,.\s]]\s+and\s*\*[0-9-]

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.]'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile(
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'  
    '([Cc]opyright\d\([Cc]\))?'
    '([Cc]opyright\d\%s'  
    '([Cc]opyright\d\&copy;'
    '([Cc]opyright\d+@copyright\{'  
    'copyright = u"'
    '[@set\d+copyright\[w-\]+]')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?\s*\d+\)\s*\)?'
'[@value\{[^{}]*\}\s*]'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s*' + name + '(?:\s*\s*\s*')?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]', re.IGNORECASE)

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','
def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break

            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                      'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
...
self.errors.report (pathname,
    'unrecognised copyright: %s'
    % line.strip())
lines.append (line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
def add_dir(self, dir, filter=GenericFilter()):
    self.dirs.append((dir, filter))

def o_help(self, option=None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('
Directories:
')
    format = '%-25s
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '
')
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != ':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
if (dir + os.sep).startswith (canon_dir):
    count += 1
    self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
        ])


class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
GenericFilter.__init__(self)

self.skip_dirs |= set([
    # Imported from GLIBC.
    'soft-fp',
])

class LibJavaFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Handled separately.
        'testsuite',

        # Not really part of the library
        'contrib',

        # Imported from upstream
        'classpath',
        'libltdl',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Handled separately.
        'testsuite',
    ])

class LibStdCxxFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    ])
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile(r'// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)
        self.add_package_author('ARM')
        self.add_package_author('AdaCore')
        self.add_package_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_package_author('Cavium Networks.')
        self.add_package_author('Faraday Technology Corp.')
        self.add_package_author('Florida State University')
        self.add_package_author('Greg Colvin and Beman Dawes.')
        self.add_package_author('Hewlett-Packard Company')
        self.add_package_author('Information Technology Industry Council')
        self.add_package_author('James Theiler, Brian Gough')
        self.add_package_author('Makoto Matsumoto and Takuji Nishimura')
        self.add_package_author('National Research Council of Canada')
        self.add_package_author('NVIDIA Corporation')
class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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\^L

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#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
 namespace gnu
 {
  namespace javax
  {
   namespace sound
   {
    class AudioSecurityManager$Permission;
   }
  }
  class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
  {
   AudioSecurityManager$Permission(::java::lang::String *, jint);
   public:
   static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
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*m4/ax_func_which_gethostname_r.m4

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16/gnu/java/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[gnu/javax/sound/AudioSecurityManager$Permission;<clinit
>()VCode
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues4)([gnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(
arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE((Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
).)-5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {

    }
return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}

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22408


result.append("</dl>");
return result.toString();
}
else {
    return null;
}
}

If=gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V

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KX0Z</dl
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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/01A
*2Y+$/A\n7806)+=>+29<=+._BYDN-EGW67+29<-%KYSMO+29RURWG+-YGW-[F'adefge+k/l7m>nDoSpunstw>\]^_`a7TbcA'>ade
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

* <p><code>Permission</code>'s must be immutable - do not change their
state after creation.
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{
/**
* Compatible with JDK 1.1+
*/
private static final long serialVersionUID = -5636570222231596674L;

/**
* This is the name assigned to this permission object.
*
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject

public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this Permission implies that the specified Permission is also granted.
 *
 * @param perm the Permission to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use implies, rather than equals, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this Permission. It must satisfy the contract of Object.hashCode: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this Permission.
 *
 * @return the name
 */
public final String getName() {
    return name;
}

/**
 * This method returns the list of actions for this Permission as a String. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ' )'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');
    return string.toString();
}
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);
}

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();

    // DO NOT EDIT THIS FILE - it is machine generated.
    #ifndef __java_security_Permission__
    #define __java_security_Permission__

    #pragma interface

    #include "java/lang/Object.h"
    extern "Java"
    {
        namespace java
        {
            namespace security
            {
                class Permission;
                class PermissionCollection;
            }
        }
    }

    class java::security::Permission : public java::lang::Object
    {
    public:
    Permission(java::lang::String *);
    virtual void checkGuard(java::lang::Object *);
    virtual jboolean implies(java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission;
}
}
}
}

class java::security::acl::Permission : public ::java::lang::Object {
{
public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__((java_interface));

#endif // __java_security_acl_Permission__
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its purpose remains meaningful.

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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The files cipher/rndunix.c and cipher/rndw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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##
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lib/accelerated/x86/elf/aes-ssse3-x86.s
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lib/system/inet_pton.c

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Comment: This code is not used on Debian/*, since we have a working
vasprintf() in glibc.

lib/extras/hex.*
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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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It was downloaded from ftp://ftp.gnus.org/gcrypt/gnutls/

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lib/system/inet_pton.c

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Comment: This code is not used on Debian/*, since we have a working
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lib/extras/hex.*

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Version 3, 19 November 2007
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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 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.

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
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:

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:

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Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy.Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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.

The "Corresponding Source" for a work in object code form means all 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.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts.
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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 written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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documented (and with an implementation available to the public in
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* m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
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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 not 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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

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@item
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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.

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@item
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@enumerate
  @item
  The modified work must itself be a software library.

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

  @item
  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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  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.)
@end enumerate
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.

@item

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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.

@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.

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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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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.

- 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.

- 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.

- 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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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo

@page
@appendixsubsec 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.

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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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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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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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.

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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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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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If such an object file uses only numerical parameters, data
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 3.1, 31 March 2009

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

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1.388 libgpm2 amd64:1.20.4-6.2+b1

1.388.1 Available under license:

This is Debian GNU/Linux's prepackaged version of the General Purpose
Mouse Interface utility. The general purpose mouse daemon tries to be
a useful mouse server for applications running on the Linux console.

This package was put together by, James Troup <james@nocrew.org>.
Now maintained as a team by:

Guillem Jover <guillem@debian.org>
Peter Samuelson <peter@p12n.org>

The upstream source was downloaded from:

<http://unix.schottelius.org/gpm/archives/>

The initial changes while packaging were minor:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.
- gpm.c (processConn): type of socket length changed (size_t -> socklen_t).
- debuglog.c: #include <string.h> to quiet -Wall.
- doc/Makefile.in (maintainer-clean): clean without interaction and clean all relevant files (i.e. gpm.info-{1,2}).
- doc/Makefile.in: add support for mouse-test.1.

The following changes were thought of and done mostly by Francois Gouget <fgouget@mygale.org>; though I didn't apply his patches as they were for various reasons:

- gpn.c (cmdline): modified handling of -t command line argument, so it can be used by anyone regardless of whether or not a copy of gpm is already running.
- gpn.c (usage): update for new -t option "types".
- mice.c: improved descriptions of mouse types.
- mice.c (M_listMice): function used by -t help, reworked version of old M_listTypes.
- mice.c (M_listTypes): function used by -t types; lists only mnemonics.

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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
# Scan for license statements.
in_comment = False

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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)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_init.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

.. parsed-literal::

   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
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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lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_dsp_status.c
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kadmin/server/ipropd_svc.c
lib/kdb/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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1.392 libicu57:amd64 57.1-6+deb9u2

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```bash
## -*-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
SHAREDLIBCXFFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

## 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
%.%$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.%$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $<\n| sed 's/(\$%\n).o[ ]*[^A]o \$@ : /g\n' > $@;\n[ -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $<\n| sed 's/(\$%\n).o[ ]*[^A]o \$@ : /g\n' > $@;\n[ -s $@ ] || rm -f $@"
## Versioned libraries rules

%.$(SO).$(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

# 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

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
 "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
<title>ICU License - moved to LICENSE</title>
</head>

<body BGCOLOR="#ffffff">
<p>
The ICU license is now in plain text format, see </p>
<i>&lt;a href="/LICENSE">LICENSE</a>. Update links and software appropriately.
</p>

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</body>
</html>
```

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1.393 libidn 1.33-1

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23338
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@end enumerate

@endheading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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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 state the exclusion of warranty; and each file should have at least the `"copyright" line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example
The hypothetical commands `show w` and `show c` should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

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@c man end

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn’t

made it into the released version of the collector, yet.)

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#!/usr/bin/python

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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltar.m4',
    'ltarchive.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog '):
        # Ignore references to copyright in changelog entries.

return re.compile ('\t')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
# Characters in a range of years. Include '.' for typos.
ranges = '[0-9]{[-0-9.,\s]+and\s+}{[0-9]}'

# Non-whitespace characters in a copyright holder's name.
name = '\[\w.,-\]

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((\[Cc\]opyright|\[Cc\]opyrights+\s+%|\[Cc\]opyrights+\s+%s|\[Cc\]opyrights+\&copy;|\[Cc\]opyrights+\@copyright\{\})\s*|\@copyright = u\"\s*|\@set\s+copyright\[\w-\]+\s*)
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '@\{[^\}\]*\}s*|\@value\{[^\}]*\}s*|\@set\s+copyright\[\w-\]+\s*
    # 3: 'by ', if used
    '\(by\s+\)?
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '\(\s*'+ name + '(?:\s+' + name + ')\s*\)?
)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = {'@copying': '@copying'}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
next_line = file.next()
except StopIteration:
    break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation(next_line)
if not self.continuation_re.match(continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match
holder = match.group(4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]
# Update the copyright years.
years = match.group(2).strip()
try:
    canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
return (False, orig_line, next_line)

line = (line[:match.start(2)]
    + ('' if intro.startswith('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
res = self.update_copyright (dir, filename, filter, 
    file, line, match)
(this_changed, line, next_line) = res
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
eelif self.other_copyright_re.search (line):
    self.errors.report (pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append (line)
    line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
        if self.use_quilt:
            subprocess.call (['quilt', 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don’t recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
               self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
               self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    selfdirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
'    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    for (dir, filter) in selfdirs:
        if i % 3 == 0 or i == len (selfdirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
if len(self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join(chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith(canon_dir):
                count += 1
                self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files = set(['math-68881.h',
                               ])

        self.skip_dirs = set(['
                               # Not part of GCC
                               ada',
                               ])

        # Better not create a merge nightmare for the GNAT folks.
        # Handled separately.
class TestsuiteFilter (GenericFilter):

def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set (
        # Don't change the tests, which could be woed by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ))

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):

def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set (
        # Maintained by the translation project.
        '.po',
        )
# Automatically-generated.
'.pot',
])

class LibGCCFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set ([
        # Imported from GLIBC.
        'soft-fp',
    ])

class LibJavaFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set ([
        # Handled separately.
        'testsuite',

        # Not really part of the library
        'contrib',

        # Imported from upstream
        'classpath',
        'libltdl',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set ([
        # Handled separately.
        'testsuite',
    ])

class LibStdCxxFilter (GenericFilter):
def __init__ (self):
GenericFilter.__init__ (self)

self.skip_files |= set ([
    # Contains no copyright of its own, but quotes the GPL.
    'intro.xml',
])

self.skip_dirs |= set ([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
    TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [ 'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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

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

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

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

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

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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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   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.

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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.

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.
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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.

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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
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@appendixsubsec Preamble

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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.

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- 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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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
 namespace gnu
 {
   namespace javax
   {
     namespace sound
     {
       class AudioSecurityManager$Permission;
     }
   }
 } class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
   AudioSecurityManager$Permission(::java::lang::String *, jint);
  public:

  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
  static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
  static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
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* m4/ax_func_which_gethostbyname_r.m4

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LineNumberTableLocalVariableTable
thisvalues4)[Lgnu/javax/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)VvalueOfE(Ljava/lang/String;)Lgnu/javax/sound/AudioSecurityManager$Permission;
-,5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/javax/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
Permission@1@@@
eAYYYYYSYSYS
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1*+E !"'
6YK*Y<YM#,)*
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35@
1java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
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1java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<p>A simple Taglet which handles Copyright information.<p/>

public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}
public boolean inOverview() {
    return true;
}

class boolean inPackage() {
    return true;
}

class boolean inType() {
    return true;
}

class boolean isInlineTag() {
    return false;
}

class static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

class public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

class public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
            }
            result.append("</dl>");
            return result.toString();
        }
        }
    }
else {
    return null;
}

if (gnu/classpath/tools/taglets/CopyrightTaglet.java/lang/Object.com/sun/tools/doclets/TagletNAMELjava/lang/String;
    ConstantValue copyrightHEADER
    Copyright: <init>()V Code
    LineNumberTable LocalVariableTable this-
    L gnu/classpath/tools/taglets/CopyrightTaglet; getName()Ljava/lang/String; inField()Z
    inConstructor inMethod
    inOverview inPackage inType isInlineTag register(Ljava/util/Map;)V

    &(*)
    java/util/Map+ . put8 (Ljava/lang/Object;Ljava/lang/Object;) L java/lang/Object;
    tagletMapJava/util/Map; copyri ghtTagl ettoString() (L com/sun/javadoc/Tag; ) L java/lang/String; 3 com/sun/javadoc/Tag
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    BF &<dl>
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    N<dt><i> Copyright ©</i></dt>
    KX0Z</dl>
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    `a7TbcA`; ade
    /* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 */

public abstract class Permission implements Guard, Serializable
{
    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name)
    { this.name = name; }

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in
     * <code>SecurityManager</code> with this <code>Permission</code> as its
     * argument. This method returns silently if the security check succeeds
     * or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj)
SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 *  + ')'</code>.
 * *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();

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SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
  namespace java
  {
    namespace security
    {
      class Permission;
      class PermissionCollection;
    }
  }
}

class java::security::Permission : public ::java::lang::Object
{

public:
  Permission(::java::lang::String *);
  virtual void checkGuard(::java::lang::Object *);
  virtual jboolean implies(::java::security::Permission *) = 0;
  virtual jboolean equals(::java::lang::Object *) = 0;
  virtual jint hashCode() = 0;
  virtual ::java::lang::String * getName();
  virtual ::java::lang::String * getActions() = 0;
  virtual ::java::security::PermissionCollection * newPermissionCollection();
  virtual ::java::lang::String * toString();
private:
  static const jlong serialVersionUID = -563657022231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
  static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:

virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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<one line to give the program's name and a brief idea of what it does.>
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# 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')
        if code_seen:
            warn(fname, ln, 'License after code')
        if 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):
    # Check filename comment if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check emacs mode line if present.
    ln = 0
    if ' -*- mode: c;' in lines[ln]:
        ln += 1

def check_file(lines, fname):
    # 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'\s*/\*.*?\*/', '', 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
    if 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)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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*/
/* .*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
/*

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/*

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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_creds.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
```
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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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Source Code:

```
#include <mechglue/mechglue.h>
#include <mechglue/g_process_context.c>
#include <mechglue/lib/gssapi/mechglue/g_rel_buffer.c>
#include <mechglue/lib/gssapi/mechglue/g_rel_cred.c>
#include <mechglue/lib/gssapi/mechglue/g_rel_name.c>
#include <mechglue/lib/gssapi/mechglue/g_rel_oid_set.c>
#include <mechglue/lib/gssapi/mechglue/g_seal.c>
#include <mechglue/lib/gssapi/mechglue/g_sign.c>
#include <mechglue/lib/gssapi/mechglue/g_store_cred.c>
#include <mechglue/lib/gssapi/mechglue/g_unseal.c>
#include <mechglue/lib/gssapi/mechglue/g_userok.c>
#include <mechglue/lib/gssapi/mechglue/g_utils.c>
#include <mechglue/lib/gssapi/mechglue/g_verify.c>
#include <mechglue/lib/gssapi/spnego/gssapiP_spnego.h>
#include <mechglue/lib/gssapi/spnego/spnego.h>
#include <mechglue/lib/gssapi/spnego/spnegoP.h>
#include <mechglue/mglueP.h>
```

and the initial implementation of incremental propagation, including the following new or changed files:

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

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    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_dup_name.c
    lib/gssapi/mechglue/g_dsp_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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.. 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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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
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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/kproplg.c

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1.409 libkrb5-3 amd64:1.15-1+deb9u1

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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
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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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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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

```
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
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_compare_name.c
```


and the initial implementation of incremental propagation, including
the following new or changed files:

- `iprop_hdr.h`
- `kadmin/server`

```python
#include <iprop_hdr.h>
```
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.. parsed-literal::

   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
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uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h
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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.

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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 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 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 for violations of the coding standards related to copyright
        # and license statements in source code comments.
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_part = comment_part.strip()
    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)
1.410 libkrb5support0 amd64:1.15-1+deb9u1

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# 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

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False

    # 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

    # 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'\s*\*.*?\*/', '', 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

In += 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)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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/

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*/
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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
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lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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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
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
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:  ",
    VERSION:  '1.12.1',
    COLLAPSE_INDEX: false,
    FILE_SUFIX: '.html',
    HAS_SOURCE: true
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
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```
src/lib/gssapi/
```

including the following files:

```
src/lib/gssapi/
generic/gssapi_err_generic
```

```
src/lib/gssapi/
generic/gssapi
```

```
src/lib/gssapi/mechglue/g_accept_sec_context
```

```
src/lib/gssapi/mechglue/g_acquire_cred
```

```
src/lib/gssapi/mechglue/g_canon_name
```

```
src/lib/gssapi/mechglue/g_compare_name
```

```
src/lib/gssapi/mechglue/g_context_time
```

```
src/lib/gssapi/mechglue/g_delete_sec_context
```

```
src/lib/gssapi/mechglue/g_dup_name
```

```
src/lib/gssapi/mechglue/g_exp_sec_context
```

```
src/lib/gssapi/mechglue/g_export_name
```

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src/lib/gssapi/mechglue/g_glue
```

```
src/lib/gssapi/mechglue/g_compare_name
```

```
src/lib/gssapi/mechglue/g_context_time
```

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src/lib/gssapi/mechglue/g_delete_sec_context
```

```
src/lib/gssapi/mechglue/g_dup_name
```

```
src/lib/gssapi/mechglue/g_exp_sec_context
```

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src/lib/gssapi/mechglue/g_export_name
```

```
src/lib/gssapi/mechglue/g_glue
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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
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
```

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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
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_dup_name.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.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
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/ioprop.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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1.413 libldap-2.4-2 2.4.44+dfsg-5+deb9u2

1.413.1 Available under license :

From 74d6d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel
---
libraries/liblmd/mdb.c | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/libraries/liblmd/mdb.c b/libraries/liblmd/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmd/mdb.c
+++ b/libraries/liblmd/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T ssize_t;
 #include <resolv.h> /* defines BYTE_ORDER on HPUX and Solaris */
 #endif
-#if defined(__APPLE__) || defined (BSD)
+##if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
 # define MDB_USE_POSIX_SEM1
 # define MDB_FDATASYNCfsync
 #elif defined(ANDROID)
--
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1define HTML_TITLE "OpenLDAP Public License"
1include "/plain.sdf"
1include "license.sdf"; plain
From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel
---
libraries/liblmdb/mdb.c | 2 +- 1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4...23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T ssize_t;
 #include <resolv.h> /* defines BYTE_ORDER on HPUX and Solaris */
 #endif
-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
    #define MDB_USE_POSIX_SEM 1
    #define MDB_FDATASYNC fsync
-#elif defined(ANDROID)
-#endif
--
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-----
Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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MA
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-----
Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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-Mark

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---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
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Regards, Kurt

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1.414 libldap-common 2.4.44+dfsg-5+deb9u2

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From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel

---
libraries/liblmdb/mdb.c | 2 +- 
1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T	ssize_t;
 #include <resolv.h>	/* defines BYTE_ORDER on HPUX and Solaris */
 #endif

-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
 # define MDB_USE_POSIX_SEM	1
 # define MDB_FDATASYNC		fsync
-elif defined(ANDROID)
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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source
Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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After discussing this license with the OpenLDAP Foundation we received
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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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---
libraries/liblmdb/mdb.c | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)

From 74d64d0eb245ce07383abcd444c23e7438e8a083 Mon Sep 17 00:00:00 2001
From: Howard Chu <hyc@openldap.org>
Date: Wed, 28 Dec 2016 18:32:14 +0000
Subject: [PATCH] ITS#8554 kFreeBSD is like BSD

Doesn't have POSIX robust mutexes - GNU userland on BSD kernel

---
diff --git a/libraries/liblmdb/mdb.c b/libraries/liblmdb/mdb.c
index 7a181d4..23c1f00 100644
--- a/libraries/liblmdb/mdb.c
+++ b/libraries/liblmdb/mdb.c
@@ -120,7 +120,7 @@ typedef SSIZE_T ssize_t;
#include <resolv.h> /* defines BYTE_ORDER on HPUX and Solaris */
#endif
-#if defined(__APPLE__) || defined (BSD)
+#if defined(__APPLE__) || defined (BSD) || defined(__FreeBSD_kernel__)
#define MDB_USE_POSIX_SEM 1
#define MDB_FDATASYNC fsync
#elif defined(ANDROID)
--
2.1.4
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From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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/* Definitions for BSD assembler syntax for Intel 386
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    adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s` to identify labels that should be ignored, as in `.i386/gas.h` --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, \".space \" HOST_WIDE_INT_PRINT_UNSIGNED\"u\", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \ 
  fputs (\".comm \", (FILE)),\ 
  assemble_name ((FILE), (NAME)),\ 
  fprintf ((FILE), \",%d\", (int)(ROUNDED)))

/* This says how to output an assembler line */
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \  
( fputs (”.lcomm “, (FILE)), \  
 assemble_name ((FILE), (NAME)), \  
 fprintf ((FILE), “,%u\n”, (int)(ROUNDED)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \  
( fputs (”.lcomm “, (FILE)), \  
 assemble_name ((FILE), (NAME)), \  
 fprintf ((FILE), “,%u,%u\n”, (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \  
( fputs (”.lcomm “, (FILE)), \  
 assemble_name ((FILE), (NAME)), \  
 fprintf ((FILE), “,%u,%u\n”, (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \  
if ((LOG)!=0) fprintf ((FILE), “.align %d\n”, (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \  
sprintf ((BUF), “*%s%ld”, (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX “_”

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" ========================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
Set up some character translations and predefined strings. \*-- will give an unbreakable dash, \*\{ will give pi, \*L" will give a left double quote, and \*R" will give a right double quote. \*C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won't be available. \*C' expand to ` in nroff, nothing in troff, for use with C<<.

```
.tr \(*W-
.ds C+ C\v'--.1v\'lh'--1p'|a-2+h'|-1p'|a0v'.1v\'lh'--1p'
.ie n \{|
   ds -- \(*W-
   ds PI pi
   if (.n.(H=4u)&(1m=24u) .ds -- \(*W\v'--12u')(\*W\v'--12u')\v' diablo 10 pitch
   if (.n.(H=4u)&(1m=20u) .ds -- \(*W\v'--12u')(\*W\v'--8u')\v' diablo 12 pitch
   ds L" "
   ds R" "
   ds C' "
   ds C" "
\}br\{|
逃 single quotes in literal strings from groff's Unicode transform.
.ie \n.(.g .ds Aq \{aq
.el .ds Aq '
\}
\}
If the F register is >0, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.
.de IX
..if \nF .nr F 0
..if \nF>0 \{|\n
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<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
</head>
<body><div class="navheader"><table width="100%" summary="Navigation header"
><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%" align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div class="titlepage"><div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div><p>There are two licenses affecting GNU libstdc++: one for the code,
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@enumerate a
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@end enumerate

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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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ' : ' + string
    sys.stderr.write (string + '
')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
        ])

        self.own_files |= set (['
            # Skip own files.
            'own_file1',
            'own_file2',
        ])

        self.skip_dirs |= set (['
            # Skip directories.
            'dir1',
            'dir2',
        ])

        self.skip_extensions |= set (['
            # Skip extensions.
            '.txt',
            '.xml',
        ])

        self.fossilised_files |= set (['
            # Skip fossilised files.
            'fossilised_file1',
            'fossilised_file2',
        ])

        self.own_files |= set (['
            # Add own files.
            'own_file3',
            'own_file4',
        ])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:[-0-9.,s]+and]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + ']' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.  
            '((C|c)opyright'
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?\:\'+ ranges + '\,\)?'
'[@value\{(\^[\s\]]\)*\}])s*)'

# 3: 'by ', if used
'\(by\s+\)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\'+ name + '(\?:\s?'+ name + '+')*\)?)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' fails foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
re.IGNORECASE)
self.comment_re = re.compile('#+|[*][*]|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '-'
self.separator = ',

def add_package_author (self, holder, canon_form = None):
if not canon_form:
    canon_form = holder
self.holders[holder] = canon_form
index = holder.find ('')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (',', index + 1)

def add_external_author (self, holder):
self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

    def canonicalise_years (self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith ('@value '):
            return years

        (min_year, max_year) = self.year_range (years)

        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file (dir, filename):
            max_year = max (max_year, self.max_year)

        # Use a range.
        if min_year == max_year:
            return '%d' % min_year
        else:
            return '%d-%d' % (min_year, max_year)
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
assert match
holder = match.group (4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
assert holder not in self.holders
elif not holder:
self.errors.report (pathname, 'missing copyright holder')
return (False, orig_line, next_line)
elif holder not in self.holders:
self.errors.report (pathname,
'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)
else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
return (False, orig_line, next_line)
# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
+ canon_form
+ line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
self.errors.report (pathname, str (e))
return (False, orig_line, next_line)
line = (line[:match.start (2)]
+ ('' if intro.startswith ('copyright = ') else ' ')
+ canon_form + self.separator
+ line[match.end (2):])
# Use the standard (C) form.
if intro.endswith ('right'):
intro += ' (C)'

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elif intro.endswith('');
    intro = intro[:-3] + '(C)
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + 'n'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not(line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                        # Check for copyright lines that might have slipped by.
                        elif self.other_copyright_re.search(line):
                            self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line
                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
for line in lines:
    file.write (line)
if self.use_quilt:
    subprocess.call (['quilt', 'add', pathname])
on.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])
        format = '%-15s %s
'

        for (option, help) in self.option_help:
            sys.stdout.write (format % (option, help))

        sys.stdout.write ('%s
' % os.path.basename(sys.argv[0]))

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])
        format = '%-15s %s
'

        for (option, help) in self.option_help:
            sys.stdout.write (format % (option, help))

        sys.stdout.write ('%s
' % os.path.basename(sys.argv[0]))
for (what, help) in self.option_help:
    sys.stdout.write(format % (what, help))
sys.stdout.write('
Directories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len(self.dirs):
        sys.stdout.write(dir + '
')
    else:
        sys.stdout.write(format % dir)
sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
            self.copyright.process_tree(dir, filter)
            if count == 0:
                self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
                sys.exit(0 if self.errors.ok() else 1)

#-----------------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])
        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(
            # Handled separately.
            # 'testsuite',
        )

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(
            # Contains no copyright of its own, but quotes the GPL.
            # 'intro.xml',
        )

        self.skip_dirs |= set(
            # Contains automatically-generated sources.
            # 'html',

            # The testsuite data files shouldn't be changed.
            # 'data',

            # Contains imported images
            # 'images',
        )
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)
        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author(' Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Mosher')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)

    self.add_dir('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir('fixincludes')
    self.add_dir('gcc', GCCFilter())
    self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir('gnattools')
    self.add_dir('include')
    self.add_dir('libada')
    self.add_dir('libatomic')
    self.add_dir('libbacktrace')
    self.add_dir('libcpp', LibCppFilter())
    self.add_dir('libdecmnumber')
    # libffi is imported from upstream.
    self.add_dir('libgcc', LibGCCFilter())
    self.add_dir('libgfortran')
    self.add_dir('libgomp')
    self.add_dir('libiberty')
    self.add_dir('libitm')
    self.add_dir('libjava', LibJavaFilter())
    self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
    self.add_dir('libmudflap', LibMudflapFilter())
    self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
    self.add_dir('libobjc')
    self.add_dir('libquadmath')
    # libsanitiser is imported from upstream.
    self.add_dir('libsssp')
    self.add_dir('libstdc++-v3', LibStdCxxFilter())
    self.add_dir('libvtv')
    self.add_dir('lto-plugin')
    # zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    ']
GCCCmdLine().main()
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ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lan
g/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilt
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;
/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[]{ tag });
    }
}
public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 */
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();
/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.  
 * 
 * @return a new <code>PermissionCollection</code>
 */

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>('(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')')</code>.  
 * 
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');

    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
  /**
   * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
   * @param perm The permission to check for equality
boolean equals (Object perm);

/**
* This method returns this <code>Permission</code> as a <code>String</code>.
* @return A <code>String</code> representing this permission.
*/
String toString();
}
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Jan 21, 2002

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// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
#define Permissions class java::security::acl::Permission : public java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *o) = 0;
    virtual ::java::lang::String *toString() = 0;
    static ::java::lang::Class class$;
} __attribute__((java_interface));

} __attribute__((java_interface));

#endif // __java_security_acl_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
    namespace security
    {
        class Permission;
        class PermissionCollection;
    }
}
}

class java::security::Permission : public java::lang::Object
{}

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();

private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:
    static ::java::lang::Class class$;
};

#ifndef __java_security_Permission__

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__
#else define__gnu_javax_sound_AudioSecurityManager$Permission__
#endif

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
    namespace gnu
    {

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24197
namespace javax
{
    namespace sound
    {
        class AudioSecurityManager$Permission;
    }
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

    AudioSecurityManager$Permission(::java::lang::String *, jint);
    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;

    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
    public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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Version 2.1, February 1999

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<td>lib/interception/mach_override</td>
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HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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From: Lasse Collin <lasse.collin@tukaani.org>
To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>


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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 be optional: if the application does not supply it, the square root function must still compute square roots.)

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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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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
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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
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1.427 libmount 2.23.2 :61.el7

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    sys-utils/renice.c
term-utils/mesg.c
term-utils/script.c
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term-utils/wall.c
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text-utils/col.c
text-utils/colt.c
text-utils/column.c
text-utils/hexdump.c
text-utils/hexdump.h
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--- vile:txtmode fc=72
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp$
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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```
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Upstream-Contact: Tatsuhiko Tsujikawa <t-tujikawa@users.sourceforge.net>
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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
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1.446 libnl3 3.2.28 :4.el7

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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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:3.1+deb8u2+b1

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[ <!--
<!ENTITY pamaccess SYSTEM "pam_mkhomedir.8.xml">
-->
]>

<article>

<articleinfo>

<title>

<xi:include xmlns:xi="http://www.w3.org/2001/XInclude"
href="pam_mkhomedir.8.xml" xpointer='xpointer(//refnamediv[@id = "pam_mkhomedir-name"]/text())'/>

</title>

</articleinfo>

<section>

<xi:include xmlns:xi="http://www.w3.org/2001/XInclude"
href="pam_mkhomedir.8.xml" xpointer='xpointer(//refsect1[@id = "pam_mkhomedir-description"]/text())'/>

</section>
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1.464 libpcsclite1 1.8.20-1

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1.465 libperl5.24 5.24.1-3+deb9u4
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---
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
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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.
use TestInit;
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 $/ = "\n"
    my $copyright_msg = <$readme>;

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

    return $year;
}


$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;
}

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:
  
  Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.24.1

Files: *

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Alterations to Henry's code are...
by Larry Wall and others

NOTE: this is derived from Henry Spencer's regexp code, and should not be confused with the original package (see point 3 below). Thanks, Henry!
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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cpan/podlators/t/lib/Test/RRA.pm
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dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
ext/POSIX/*
ext/ref/*
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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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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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.

书写者签名, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.471 libpsl5 0.17.0-3

1.471.1 Available under license:
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libpsl
Source: https://github.com/rockdaboot/libpsl

Files: *
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License: MIT

Files: debian/*
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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c
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1.472 libpython-stdlib 2.7.13-2

1.472.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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 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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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 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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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.keio.ac.jp/matumoto/emt.html
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Sockets
-------

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Modified by Jack Jansen, CWI, July 1995:
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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Mersenne Twister
---------------

The `mod:` `random` module includes code based on a download from
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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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Sockets
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MD5 message digest algorithm

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Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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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); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

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==============

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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 `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/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.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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

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 * Rob Earhart
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1.490 libselinux-python 2.5 :14.1.el7

1.491 libselinux-utils 2.5 :14.1.el7

1.492 libselinux1 amd64:2.6-3+b3

1.492.1 Available under license :
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http://userspace.selinuxproject.org/trac/wiki/Releases

This package was debianized by Colin Walters <walters@debian.org> on
Thu, 3 Jul 2003 17:10:57 -0400.

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1.493 libsemanage 2.5 :14.el7

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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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(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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1.495 libsemanage-python 2.5 :14.el7

1.496 libsemanage1 2.6-2
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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.497 libsensors4 1:3.4.0-4

1.497.1 Available under license:

This package was debianized by Stephen Crowley crow@debian.org and is now maintained by Aurelien Jarno <aurel32@debian.org>.

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1.498 libsepol 2.5 :10.el7

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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.

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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.

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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
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.506 libsquirrel3.0:amd64 3.16.2-5+deb9u1

1.506.1 Available under license:
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a legal notice, here is a blessing:

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May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

1.507 libss 1.42.9 :16.el7

1.508 libss2 1.43.4-2

1.508.1 Available under license:

# 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_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)
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Gadi Oxman, August 1995

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Version 2, June 1991

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This package was added to the e2fsprogs debian source package by 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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the Common Error Description 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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command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
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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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1.513 libstdc++ 4.8.5 :39.el7

1.514 libstdc++6 6.3.0-18+deb9u1

1.514.1 Available under license:

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Version 3.1, 31 March 2009

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimix modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mitia.me.tia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.cs.harris.com) ported the collector to
a Motorola 68K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to non-IBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @ @GCC_4.6.0.

```plaintext
%exclude {
  __addtf3
  __copysignf3
  __divtc3
  __divtf3
  __eqtf2
  __extenddftf2
  __extendsftf2
  __extendxftf2
  __fabstf2
  __fixtfdi
  __fixtfsi
  __fixtfi
  __fixunstfdi
  __fixunstfsi
  __fixunstfui
  __floatdiftf
  __floatsitf
  __floattitf
  __floatunditf
  __floatunstf
  __floatunstfi
  __floatuntitf
  __getf2
  __gttf2
  __letf2
  __lttf2
  __multc3
  __multf3
  __negtf2
  __netf2
  __powitf2
  __subtf3
  __trunctdf2
  __trunctfsf2
  __trunctfxf2
  __unordtf2
}

GCC_4.6.0 {
  __addtf3
  %ifndef __x86_64__
  __copysignf3
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}
```
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The precise terms and conditions for copying, distribution and
modification follow.

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@enumerate
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@end enumerate

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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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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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<one line to give the library's name and a brief idea of what it does.>  
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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@settitle GNU General Public License
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@unnumberedsec Preamble

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cost of physically performing source distribution, a complete
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The source code for a work means the preferred form of the work for
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associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
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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
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@end enumerate

@ifex
@end iftex

@end ifnottex

@end page

@end unnumberedsec

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 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 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.

@example
[one line to give the program's name and a brief idea of what it does.]

Copyright (C) @var{year}  @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program 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 General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
@example
@end smallexample
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:

```smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{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.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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 is a sample; alter the names:

```example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```c man
@c man end
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@item
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@enumerate a
@item
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@item
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
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@item
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That's all there is to it!
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/*

Unix SMB/CIFS implementation.

local testing of talloc routines.

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1.530 libverto-tevent 0.2.5 :4.el7

1.531 libwebp 0.3.0 :7.el7

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1.534 libx11-data 2:1.6.4-3

1.535 libxau6 1:1.0.8-1

1.536 libxcb1:amd64 1.12-1

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1.546 libxtst6:amd64 2:1.2.3-1

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1.547 libyajl2 2.1.0-2+b3

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Upstream-Contact: Lloyd Hilaiel <me@lloyd.io>
Source: http://lloyd.github.com/yajl/

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1.548 libyaml 0.1.4

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* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

===============================================================================

Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
25661
2.

/* utility to create the register check tables
 * this includes inlined list.h safe for userspace.
 *
 * Copyright 2009 Jerome Glisse
 * Copyright 2009 Red Hat Inc.
 *
 * Authors:
 *    Jerome Glisse
 *    Dave Airlie
 */

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File: comm_lib.h

===============================================================================

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*+ */
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*=====================================================================

File Name list: aes.h, aes_locl.h
4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -* - */
/**
 * 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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 */

File: aes_core.c

================================================================================

5.

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- ---------------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================*/
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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael)
designed by Joan Daemen and Vincent Rijmen. This version is designed
to provide both fixed and dynamic block and key lengths and can also
run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of
the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte                    (an unsigned 8-bit type)
word                    (an unsigned 32-bit type)
aes_ret:                (a signed 16 bit type for function return values)
aes_good                (value != 0, a good return)
aes_bad                 (value == 0, an error return)
enum aes_key:           (encryption direction)
enc                     (set key for encryption)
dec                     (set key for decryption)
both                    (set key for both)
class or struct aes     (structure for context)

C subroutine calls:

aes_ret set_blk(const word block_length, aes *cx)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
               const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does
not set the memory used for objects to zero before use, you will need to
ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

aes_ret set_blk(const word block_length)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
               const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of
BYTES, not bits. The calls to subroutines must be made in the above
order but multiple calls can be made without repeating earlier calls
if their parameters have not changed. If the cipher block length is
variable but set_blk has not been called before cipher operations a
value of 16 is assumed (that is, the AES block size). In contrast to
earlier versions the block and key length parameters are now checked
for correctness and the encryption and decryption routines check to
ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The
input, the output and the key input are all enumerated arrays of bytes
in which bytes are numbered starting at zero and increasing to one less
than the number of bytes in the array in question. When these inputs
and outputs are considered as bit sequences, the n'th byte contains
bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to
the most significant bit within the byte (i.e. that having a numeric
value of 128). However, Rijndael can be implemented more efficiently
using 32-bit words to process 4 bytes at a time provided that the order
of bytes within words is known. This order is called big-endian if the
lowest numbered bytes in words have the highest numeric significance
and little-endian if the opposite applies. This code can work in either
order irrespective of the native order of the machine on which it runs.
The byte order used internally is set by defining INTERNAL_BYTE_ORDER
whereas the order for all inputs and outputs is specified by defining
EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine
if a byte order change is needed immediately after input and immediately
before output to account for the use of a different internal byte order.
In almost all situations both of these defines will be set to the native
order of the processor on which the code is to run but other settings
may sometimes be useful in special circumstances.

#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN

C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define in aes.h
b. Exclude the AES_IN_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define in aes.h
b. Include the AES_IN_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define in aes.h
b. Compile the DLL. If using the test files, exclude aes.c from
   the test build project and compile it with the same defines
   as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or
   leave this undefined for dynamically variable block size (this will
   result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the
   internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte
   order used at the external interfaces for the input, output and key
   byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c
and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a
slower version providing variable block length is compiled

#define BLOCK_SIZE  16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the
C code directly.

#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL

*/
File: aes.h

/===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

FILE: aes_tab.h
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#
# context.Display(msg)  Function called to print messages that are normally
#                       displayed for the user. Newlines are explicitly used.
#                       The text should also be written to the logfile!
#
# context.Log(msg)     Function called to write to a log file.
#
# context.BuildProg(text, ext)
#                       Function called to build a program, using "ext" for the
#                       file extension. Must return an empty string for
#                       success, an error message for failure.
#                       For reliable test results building should be done just
#                       like an actual program would be build, using the same
#                       command and arguments (including configure results so
#                       far).
#
# context.CompileProg(text, ext)
#                       Function called to compile a program, using "ext" for
#                       the file extension. Must return an empty string for
#                       success, an error message for failure.
#                       For reliable test results compiling should be done just
#                       like an actual source file would be compiled, using the
#                       same command and arguments (including configure results
#                       so far).
#
# context.AppendLIBS(lib_name_list)
#                       Append "lib_name_list" to the value of LIBS.
#                       "lib_namelist" is a list of strings.
#                       Return the value of LIBS before changing it (any type
#                       can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
#                       Prepend "lib_name_list" to the value of LIBS.
#                       "lib_namelist" is a list of strings.
#                       Return the value of LIBS before changing it (any type
#                       can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
#                       Set LIBS to "value". The type of "value" is what
#                       AppendLIBS() returned.
# Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually
# "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h  (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict   Dictionary holding variables used for the tests and
# stores results from the tests, used for the build
# commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict  Dictionary holding results from the tests that are to
# be used inside a program.
# Names often start with "HAVE_". These are zero
# (feature not present) or one (feature present). Other
# variables may have any value, e.g., "PERLVERSION" can
#
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 */

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/**************************************************************************

//
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//
//--
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 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

**************************************************************************/
/*
 * Written by Aaron D. Gifford <me@aarongifford.com>
 *
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------------------------------------------------------------------------------

/*-
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 First, the polynomial itself and its table of feedback terms. The
 polynomial is
 X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 *
 Note that we take it "backwards" and put the highest-order term in
 the lowest-order bit. The X^32 term is "implied"; the LSB is the
 X^31 term, etc. The X^0 term (usually shown as "+1") results in
 */
* the MSB being 1

* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly

* The feedback terms table consists of 256, 32-bit entries. Notes

* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values

* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial $edb88320

/*

The AES algorithm Rijndael implemented for block and key sizes of 128,
192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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for some ideas that are used in this implementation.

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/
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* Fowler/Noll/Vo hash
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-----------------------------------------------------------------------------
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* sha1.c
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* *
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*/
-----------------------------------------------------------------------------

/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
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agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

This hex coded firmware is not based on any open source software and hence it is not subject to any Open Source License. The firmware was developed by Agere and runs on the DISC processor embedded within the Hermes 1/2/2.5 Wireless MAC devices.

Hope this helps.

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Fast discrete Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier
routines of the same names from the NETLIB bihar and fftpack
fortran libraries developed by Paul N. Swarztrauber at the National
Center for Atmospheric Research in Boulder, CO USA. They have been
reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier
routines in this file are hereby released to the public domain as
well. The C routines here produce output exactly equivalent to the
original fortran routines. Of particular interest are the facts
that (like the original fortran), these routines can work on
arbitrary length vectors that need not be powers of two in
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Chelsio Communication Terminator 4/5 ethernet controller firmware

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

---------------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
---------------------------------------------------------------------------

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).
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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- CONFIG_HOTPLUG - Support for hot-pluggable devices
- CONFIG_MODULES - Enable loadable module support
- CONFIG_KMOD - Automatic kernel module loading
- CONFIG_FW_LOADER - Hotplug firmware loading support
- CONFIG_I2C - I2C support
- CONFIG_VIDEO_DEV - Video For Linux
- CONFIG_SOUND - Sound card support
- CONFIG_SND - Advanced Linux Sound Architecture
- CONFIG_USB - Support for Host-side USB
- CONFIG_USB_DEVICEFS - USB device filesystem
- CONFIG_USB_EHCI_HCD - EHCI HCD (USB 2.0) support
Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS  - OSS Mixer API
- CONFIG_SND_PCM_OSS    - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

$ make

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be installed by running:

$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.
Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not
receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER
The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. AL$$A may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctl's are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O
is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```c
__u32 gop_size
  The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames
  The maximum number of sequential bidirectionally-predicted frames.
  (B-frames are not yet supported.)
```

```c
enum go7007_aspect_ratio
  The aspect ratio to be encoded in the meta-data of the compressed format.
  Choices are:
  GO7007_ASPECT_RATIO_1_1
  GO7007_ASPECT_RATIO_4_3_NTSC
  GO7007_ASPECT_RATIO_4_3_PAL
  GO7007_ASPECT_RATIO_16_9_NTSC
  GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags
  Bit-wise OR of control flags (below)
```

Flags in struct go7007_comp_params:

```c
GO7007_COMP_CLOSED_GOP
  Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER
  Omit the stream sequence header.
```

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctl's are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of
the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```c
enum go7007_mpeg_video_standard
    mpeg_video_standard  The MPEG video standard in which to compress the video.

   Choices are:
    GO7007_MPEG_VIDEO_MPEG1
    GO7007_MPEG_VIDEO_MPEG2
    GO7007_MPEG_VIDEO_MPEG4

__u32 flags
    Bit-wise OR of control flags (below)

__u32 pali
    The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

   Choices for MPEG2 are:
    GO7007_MPEG2_PROFILE_MAIN_MAIN

   Choices for MPEG4 are:
    GO7007_MPEG4_PROFILE_S_L0
    GO7007_MPEG4_PROFILE_S_L1
    GO7007_MPEG4_PROFILE_S_L2
    GO7007_MPEG4_PROFILE_S_L3
    GO7007_MPEG4_PROFILE_ARTS_L1
    GO7007_MPEG4_PROFILE_ARTS_L2
    GO7007_MPEG4_PROFILE_ARTS_L3
    GO7007_MPEG4_PROFILE_ARTS_L4
    GO7007_MPEG4_PROFILE_AS_L0
    GO7007_MPEG4_PROFILE_AS_L1
    GO7007_MPEG4_PROFILE_AS_L2
    GO7007_MPEG4_PROFILE_AS_L3
    GO7007_MPEG4_PROFILE_AS_L4
    GO7007_MPEG4_PROFILE_AS_L5
```

Flags in struct go7007_mpeg_params:

```c
GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and
```
bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctl's are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff
Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

-----------------------------------------------------------------------------------------------
RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER
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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height
values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Firmware provided as part of an XC4000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller
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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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Url: http://github.com/mdub/clamp
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Library: jackson-core v2.9.5
Url: https://github.com/FasterXML/jackson-core
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--------------------------------------------------
Library: jackson-databind v2.9.5
Url: https://github.com/FasterXML/jackson-databind
License: Apache-2.0

# 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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Url: https://github.com/elastic/logstash
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Url: http://prototypejs.org
TODO

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Library: rspec v3.7.0
Url: https://github.com/rspec/rspec
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Library: ruby-progressbar v1.8.3
Url: https://github.com/jfelchner/ruby-progressbar
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Library: rubyzip v1.2.1
Url: https://github.com/rubyzip/rubyzip
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Url: https://github.com/sinatra/sinatra
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Url: https://github.com/hallidave/ruby-snmp
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1.557 lvm2-libs 2.02.180 :10.el7_6.2

1.558 lz4 1.7.5 :3.el7

1.558.1 Available under license:
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1.562 make 3.82 :24.el7

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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.

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"Source code" for a work means the preferred form of the work for
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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
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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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1.563 man-db 2.6.3 :11.el7

1.563.1 Available under license :

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The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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Warnings:
Warning1681 'SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.

# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
# Creation Date: 2008-02-07
# Author: Sharique Abdullah
# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways:
# * Value Check
# * Scope Check

SELECT COUNT(@@GLOBAL.license);
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '-------------------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable #

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '-------------------------------BS_STVARS_040_04----------------------#'
# Check if accessing variable with and without GLOBAL point to same variable #

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '-------------------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign

SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

'#---------------------------------------------------------------------BS_STVARS_040_01-----------------------------------#
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#---------------------------------------------------------------------BS_STVARS_040_02-----------------------------------#
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#---------------------------------------------------------------------BS_STVARS_040_03-----------------------------------#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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### mysql-test\license_basic.test

# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string

# Creation Date: 2008-02-07
# Author: Sharique Abdullah

# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways:
# * Value Check
# * Scope Check


--echo '#---------------------BS_STVARS_040_01----------------------#'

--echo '#---------------------BS_STVARS_040_02----------------------#'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable #

```sql
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
```

```text
--echo '#---------------------BS_STVARS_040_04----------------------#'
```

```sql
# Check if accessing variable with and without GLOBAL point to same variable #

```sql
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected
```

```text
--echo '#---------------------BS_STVARS_040_05----------------------#'
```

```sql
# Check if license can be accessed with and without @@ sign #

```sql
SELECT COUNT(@@license);
--echo 1 Expected
```

```text
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
```

```sql
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```sql
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'
```

```sql
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```

```text
--Error ER_BAD_FIELD_ERROR
```
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'
'#------------------------------------------------------------------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#------------------------------------------------------------------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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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
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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
link a "work that uses the Library" with the Library to produce a
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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) 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
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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.

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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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1.569 microcode_ctl 2.1 :53.el7

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1.571 mime-support 3.60

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1.572 mitchellh/mapstructure
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1.573 modsecurity 3.1.0

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text-utils/hexdump.h
text-utils/hexdump-conv.c
text-utils/hexdump-display.c
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text-utils/rev.c
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1.581 musl-utils 1.1.19-r10

1.582 mysql-connector-java 8.0.11

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4w
Z[1]^``abc
defghijkl XProtocolNoticeFrameType_WARNINGI
ConstantValue)XProtocolNoticeFrameType_SESS_VAR_CHANGED+XProtocolNoticeFrameType_SESS_STATE
_CHANGED"SessionStateChanged_CURRENT_SCHEMA#SessionStateChanged_ACCOUNT_EXPIRED'Session
StateChanged_GENERATED_INSERT_ID!SessionStateChanged_ROWS_AFFECTED'SessionStateChanged_RO
WS_FOUND
SessionStateChanged_ROWS_MATCHED!SessionStateChanged_TRX_COMMITTED"SessionStateChanged_TR
X_ROLLEDBACK'SessionStateChanged_PRODUCED_MESSAGE
&SessionStateChanged_CLIENT_ID_ASSIGNED*SessionStateChanged_GENERATED_DOCUMENT_IDS
noticeTypelevelcodeJmessageJava/lang/String;paramTypeJava/lang/Integer;
paramNamevalueScalarInnerClassesLcom/mysql/cj/x/protobuf/MysqlxDatatypes$Scalar;valueListJava/util/List;
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LineNumberTableLocalVariableTablethis
Lcom/mysql/cj/protocol/x/Notice;(ILjava/util/List;)VLocalVariableTableLocalVariableTablethis
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feType jakLevelgetCode()J
getMessage(Ljava/lang/String)getParamType(Ljava/lang/Integer;getParamNamegetValue2(Lcom/mysql/cj/x/
protobuf/MysqlxDatatypes$Scalar;);
StackMapTablegetValueList(Ljava/util/List;D()Ljava/util/List<Lcom/mysql/cj/x/protobuf/MysqlxDatatypes$Scalar
;);
SourceFileNotice.java=m.2341589:com/mysql/cj/protocol/x/Notice-
./01nopqrstuv.com/mysql/cj/x/protobuf/MysqlxDatatypes$Scalarjava/lang/Objectcom/mysql/cj/protocol/Warning()
Vjava/lang/IntegervalueOf(I)Ljava/lang/Integer;java/util/ListsisEmpty()Ljava/lang/Object;"com/mysql/cj/x/pr
otobuf/MysqlxDatatypes!"%&'(+)+-./0123456789::=>?3************ *
@.J7=>@1"KL,M2NA*3BC3-3/30D?0*********,@*
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1.585 ncurses-bin 6.0+20161126-1+deb9u2

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1.588 netbase 5.4

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1.591 nfs-utils 1.3.0 :0.65.el7

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1.592 ngdbc 2.3.48

1.593 nginx 1.15.8

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1.594 nmap-ncat 6.40 :16.el7

1.595 NodeJS 8.11.3-1nodesource1

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3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and isosignal code into separate modules.
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9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
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[28]<H.Lambermont@chello.nl> ntpswEEP

27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
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driver (>14 reference clocks), STREAMS modules for PARSE, support
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29. [32] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
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30. [33] Dave Katz <dkatz@cisco.com> RS/6000 AIX port

31. [34] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
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32. [35] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

33. [36] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

34. [37] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305

35. [38] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
Maintenance

36. [39] David L. Mills <mills@udel.edu> Version 4 foundation: clock
discipline, authentication, precision kernel; clock drivers:
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37. [40] Wolfgang Moeller <moeller@gwgdv1.dnet.gwdg.de> VMS port

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39. [42] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port

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45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for
NetInfo

46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory

48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port

49. [53] Michael Shields <shields@tembel.org> USNO clock driver

50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver

51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)

52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port

53. [57] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
support
54. [58] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60] Ulrich Windl <Ulrich.Wind@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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<ol>
Clock driver for JJY receivers

Leitch atomic clock controller

hopf Elektronik serial line and PCI-bus devices

Port to Windows NT 3.5

GPSVME fixes

Syslog to file option

Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

Magnavox GPS clock driver

Leapsec clock driver, Trimble PARSE support

IPv6 support

Oncore driver (Current maintainer)

OMEGA clock driver

vxWorks (Tornado) port and help with target configuration

Sven Dietrich

Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

IPv6 support and testing

General maintenance, Windows port interpolation rewrite

NeoClock4X clock driver

GOES clock driver

DEC Alpha port

Mike Iglesias

DEC Alpha port
A/UX port

<li class="inline"><a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive prototyping overhaul</li>

<li class="inline"><a href="mailto:Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:kardel (at) ntp (dot) org">Frank Kardel</a> massive prototyping overhaul</li>

<li class="inline"><a href="mailto:phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>

<li class="inline"><a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones <jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HPUX modifications</li>

<li class="inline"><a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port</li>

<li class="inline"><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm <lindholm@ucs.ubc.ca></a> SunOS 5.1 port</li>

<li class="inline"><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based authentication</li>

<li class="inline"><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305</li>

<li class="inline"><a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a> Network I/O, Windows Port, Code Maintenance</li>

<li class="inline"><a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG</li>

<li class="inline"><a href="mailto:%20moeller@gwdgv1.dnet.gwdg.de">Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de></a> VMS port</li>

<li class="inline"><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntptrace utility</li>

<li class="inline"><a href="mailto:%20tmooore@fievel.daytonoh.nrc.com">Tom Moore <tmooore@fievel.daytonoh.nrc.com></a> i386 svr4 port</li>

<li class="inline"><a href="mailto:%20kamal@whence.com">Kamal A Mostafa <kamal@whence.com></a> SCO OpenServer port</li>

<li class="inline"><a href="mailto:%20derek@toybox.demon.co.uk">Derek Mulcahy <derek@toybox.demon.co.uk></a> and <a href="mailto:%20d@hd.org">Damon Hart-Davis <d@hd.org></a> ARCRON MSF clock driver</li>

<li class="inline"><a href="mailto:%20neal@ntp.org">Rob Neal <neal@ntp.org></a> Bancomm refclock and config/parse code maintenance</li>

<li class="inline"><a href="mailto:%20Rainer.Pruy@informatik.uni-erlangen.de">Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de></a> monitoring/trap scripts, statistics file handling</li>

<li class="inline"><a href="mailto:%20dirce@zk3.dec.com">Dirce Richards <dirce@zk3.dec.com></a> Digital UNIX V4.0 port</li>

<li class="inline"><a href="mailto:%20wsanchez@apple.com">Wilfredo S&aelig;anchez <wsanchez@apple.com></a> added support for NetInfo</li>

<li class="inline"><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules
Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

Ray Schnitzler <schnitz@unipress.com>
Unixware1 port

Michael Shields <shields@tembel.org>
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Jeff Steinman <jss@pebbles.jpl.nasa.gov>
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Michael Shields <shields@tembel.org>
USNO clock driver

Jeff Steinman <jss@pebbles.jpl.nasa.gov>
GNUMake/autoconfigure makeover, various otherbits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com>
HP-UX port

Jeff Steinman <jss@pebbles.jpl.nasa.gov>
Datum PTS clock driver

Ajit Thyagarajan <ajit@ee.udel.edu>
IPmulticast/anycast support

Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>
TRAK clock driver

Paul A Vixie <vixie@vix.com>
TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de>
corrected and validated HTML documents according to the HTML DTD

<script type="text/javascript" language="javascript" src="scripts/footer.txt"></script>
</body>
</html>

1.606 numaclt 2.0.12 :3.el7

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/* Copyright (C) 2003,2004,2005 Andi Kleen, SuSE Labs.
   Command line NUMA policy control.

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on your Linux system; if not, write to the Free Software Foundation,
Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA */
#define _GNU_SOURCE
#include <getopt.h>
```c
#include <errno.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <stdarg.h>
#include <ctype.h>
#include "numa.h"
#include "numaif.h"
#include "numaint.h"
#include "util.h"
#include "shm.h"

#define CPUSET 0
#define ALL 1

int exitcode;

struct option opts[] = {
    { "all", 0, 0, 'a' },
    { "interleave", 1, 0, 'i' },
    { "preferred", 1, 0, 'p' },
    { "cpubind", 1, 0, 'c' },
    { "cpunodebind", 1, 0, 'N' },
    { "physcpubind", 1, 0, 'C' },
    { "membind", 1, 0, 'm' },
    { "show", 0, 0, 's' },
    { "localalloc", 0, 0, 'l' },
    { "hardware", 0, 0, 'H' },
    { "shm", 1, 0, 'S' },
    { "file", 1, 0, 'f' },
    { "offset", 1, 0, 'o' },
    { "length", 1, 0, 'L' },
    { "strict", 0, 0, 't' },
    { "shmmode", 1, 0, 'M' },
    { "dump", 0, 0, 'd' },
    { "dump-nodes", 0, 0, 'D' },
    { "shmid", 1, 0, 'T' },
    { "huge", 0, 0, 'u' },
    { "touch", 0, 0, 't' },
    { "verify", 0, 0, 'V' }, /* undocumented - for debugging */
    { 0 }
};

void usage(void)
{
    fprintf(stderr,
```
"usage: numactl [--all | -a] [--interleave= | -i <nodes>] [--preferred= | -p <node>] \n"  
   [--physcpubind= | -C <cpus>] [--cpunodebind= | -N <nodes>] \n"  
   [--membind= | -m <nodes>] [--localalloc= | -l] command args ...
"  
numactl [--show= | -s] \n"  
numactl [--hardware= | -H] \n"  
numactl [--length= | -l <length>] [--offset= | -o <offset>] [--shm mode= | -M <shm mode>] \n"  
   [--strict= | -t] \n"  
   [--shm id= | -I <id>] --shm= | -S <shm key file> \n"  
   [--shm id= | -I <id>] --file= | -f <tmpfs file> \n"  
   [--huge= | -u] [--touch= | -T] \n"  
   memory policy [--dump= | -d] | --dump-nodes= | -D] \n"  

"memory policy is --interleave= | -i, --preferred= | -p, --membind= | -m, --localalloc= | -l\n"  
"<nodes> is a comma delimited list of node numbers or A-B ranges or all.\n"  
"Instead of a number a node can also be\n"  
netdev:DEV the node connected to network device DEV\n"  
"file:PATH the node the block device of path is connected to\n"  
"ip:HOST the node of the network device host routes through\n"  
"block:PATH the node of block device path\n"  
"pci:[seg:bus:dev:func] The node of a PCI device\n"  
"<cpus> is a comma delimited list of cpu numbers or A-B ranges or all\n"  
"all ranges can be inverted with !\n"  
"all numbers and ranges can be made cpuset-relative with +\n"  
"the old --cpubind argument is deprecated.\n"  
"use --cpunodebind or --physcpubind instead\n"  
"<length> can have g (GB), m (MB) or k (KB) suffixes\n"

exit(1); 
} 

void usage_msg(char *msg, ...) 
{
  va_list ap;
  va_start(ap, msg);
  fprintf(stderr, "numactl: ");
  vfprintf(stderr, msg, ap);
  putchar('n');
  usage();
} 

void show_physcpubind(void) 
{
  int ncpus = numa_num_configured_cpus();

  for (;;) { 
    struct bitmask * cpubuf;
    
    cpubuf = numa_bitmask_alloc(ncpus);

if (numa_sched_getaffinity(0, cpufreq) < 0) {
    if (errno == EINVAL && ncpus < 1024*1024) {
        ncpus *= 2;
        continue;
    }
    err("sched_get_affinity");
}
printmask("physcpubind", cpufreq);
break;
}

void show(void)
{
    unsigned long prefnode;
    struct bitmask *membind, *interleave, *cpubind;
    unsigned long cur;
    int policy;

    if (numa_available() < 0) {
        show_physcpubind();
        printf("No NUMA support available on this system.
");
        exit(1);
    }

cpubind = numa_get_run_node_mask();

    prefnode = numa_preferred();
    interleave = numa_get_interleave_mask();
    membind = numa_get_membind();
    cur = numa_get_interleave_node();

    policy = 0;
    if (get_mempolicy(&policy, NULL, 0, 0, 0) < 0)
        perror("get_mempolicy");

    printf("policy: %s\n", policy_name(policy));

    printf("preferred node: ");
    switch (policy) {
    case MPOL_PREFERRED:
        if (prefnode != -1) {
            printf("%ld\n", prefnode);
            break;
        }
        /*FALL THROUGH*/
    case MPOL_DEFAULT:
        printf("current\n");
break;
case MPOL_INTERLEAVE:
    printf("%ld (interleave next)\n", cur);
    break;
case MPOL_BIND:
    printf("%d\n", find_first(membind));
    break;
} 
if (policy == MPOL_INTERLEAVE) {
    printmask("interleavemask", interleave);
    printf("interleavenode: %ld\n", cur);
} 
show_physcpubind();
printmask("cpubind", cpubind); // for compatibility
printmask("nodebind", cpubind);
printmask("membind", membind);
}

char *fmt_mem(unsigned long long mem, char *buf)
{
    if (mem == -1LL)
        sprintf(buf, "<not available>");
    else
        sprintf(buf, "%llu MB", mem >> 20);
    return buf;
}

static void print_distances(int maxnode)
{
    int i, k;
    int fst = 0;
    for (i = 0; i <= maxnode; i++)
        if (numa_bitmask_isbitset(numa_nodes_ptr, i))
            fst = i;
        break;
    if (numa_distance(maxnode, fst) == 0) {
        printf("No distance information available.\n");
        return;
    }
    printf("node distances:\n");
    printf("node ");
    for (i = 0; i <= maxnode; i++)
        if (numa_bitmask_isbitset(numa_nodes_ptr, i))
            printf("% 3d ", i);
    printf("\n");
    for (i = 0; i <= maxnode; i++)
        printf("%d", numa_distance(maxnode, fst));
    printf("\n");
}
if (!numa_bitmask_isbitset(numa_nodes_ptr, i))
continue;
printf("% 3d: ", i);
for (k = 0; k <= maxnode; k++)
if (numa_bitmask_isbitset(numa_nodes_ptr, i) &&
    numa_bitmask_isbitset(numa_nodes_ptr, k))
printf("% 3d ", numa_distance(i,k));
printf("\n");
}
}

void print_node_cpus(int node)
{
    int i, err;
    struct bitmask *cpus;

    cpus = numa_allocate_cpumask();
    err = numa_node_to_cpus(node, cpus);
    if (err >= 0) {
        for (i = 0; i < cpus->size; i++)
            if (numa_bitmask_isbitset(cpus, i))
                printf(" %d", i);
    }
    putchar(\n);
}

void hardware(void)
{
    int i;
    int numnodes=0;
    int prevnode=-1;
    int skip=0;
    int maxnode = numa_max_node();

    if (numa_available() < 0) {
        printf("No NUMA available on this system\n");
        exit(1);
    }

    for (i=0; i<maxnode; i++)
        if (numa_bitmask_isbitset(numa_nodes_ptr, i))
            numnodes++;
    printf("available: %d nodes (", numnodes);
    for (i=0; i<maxnode; i++) {
        if (numa_bitmask_isbitset(numa_nodes_ptr, i) {
            if (prevnode == -1) {
                printf("%d", i);
            prevnode=i;
            }
continue;
}

if (i > prevnode + 1) {
    if (skip) {
        printf("\%d", prevnode);
        skip=0;
    }
    printf("\%d", i);
    prevnode=i;
    continue;
}

if (i == prevnode + 1) {
    if (!skip) {
        printf("-");
        skip=1;
    }
    prevnode=i;
}

if ((i == maxnode) && skip)
    printf("\%d", prevnode);
}
}

printf("\n");

for (i = 0; i <= maxnode; i++) {
    char buf[64];
    long long fr;
    unsigned long long sz = numa_node_size64(i, &fr);
    if (!numa_bitmask_isbitset(numa_nodes_ptr, i))
        continue;

    printf("node \%d cpus:\n", i);
    print_node_cpus(i);
    printf("node \%d size: %s\n", i, fmt_mem(sz, buf));
    printf("node \%d free: %s\n", i, fmt_mem(fr, buf));
}
print_distances(maxnode);
}

void checkerror(char *s)
{
    if (errno) {
        perror(s);
        exit(1);
    }
}
void checknuma(void)
{
    static int numa = -1;
    if (numa < 0) {
        if (numa_available() < 0)
            complain("This system does not support NUMA policy");
        numa = 0;
    }

    int set_policy = -1;

    void setpolicy(int pol)
    {
        if (set_policy != -1)
            usage_msg("Conflicting policies");
        set_policy = pol;
    }

    void nopolicy(void)
    {
        if (set_policy >= 0)
            usage_msg("specify policy after --shm/--file");
    }

    int did_cpubind = 0;
    int did_strict = 0;
    int do_shm = 0;
    int do_dump = 0;
    int shmattached = 0;
    int did_node_cpu_parse = 0;
    int parse_all = 0;
    char *shmoption;

    void check_cpubind(int flag)
    {
        if (flag)
            usage_msg("cannot do --cpubind on shared memory\n");
    }

    void noshm(char *opt)
    {
        if (shmattached)
            usage_msg("%s must be before shared memory specification", opt);
        shmoption = opt;
    }
void dontshm(char *opt)
{
    if (shmoption)
        usage_msg("%s shm option is not allowed before %s", shmoption, opt);
}

void needshm(char *opt)
{
    if (!shmattached)
        usage_msg("%s must be after shared memory specification", opt);
}

void check_all_parse(int flag)
{
    if (did_node_cpu_parse)
        usage_msg("--all/-a option must be before all cpu/node specifications");
}

void get_short_opts(struct option *o, char *s)
{
    *s++ = '+';
    while (o->name) {
        if (isprint(o->val)) {
            *s++ = o->val;
            if (o->has_arg)
                *s++ = ':';
        }
        o++;
    }
    *s = '\0';
}

void check_shmbeyond(char *msg)
{
    if (shmoffset >= shmlen) {
        fprintf(stderr,
            "numactl: region offset %#llx beyond its length %#llx at %s\n",
            shmoffset, shmlen, msg);
        exit(1);
    }
}

static struct bitmask *numactl_parse_nodestring(char *s, int flag)
{
    static char *last;
    if (s[0] == 's' && !strcmp(s, "same")) {
        if (s[1] == 'm') {
            *last = 'm';
            return numactl_parse_nodestring(s + 2, flag);
        }
        if (s[1] == 'a') {
            *last = 'a';
            return numactl_parse_nodestring(s + 2, flag);
        }
    }
    return numactl_parse_nodestring(s + 1, flag);
}
if (!last)
usage_msg("same needs previous node specification");
s = last;
} else {
last = s;
}

if (flag == ALL)
return numa_parse_nodestring_all(s);
else
return numa_parse_nodestring(s);
}

int main(int ac, char **av)
{
int c, i, nnodes=0;
long node=-1;
char *end;
char shortopts[array_len(opts)*2 + 1];
struct bitmask *mask = NULL;

get_short_opts(opts, shortopts);
while ((c = getopt_long(ac, av, shortopts, opts, NULL)) != -1) {
switch (c) {
case 's': /* --show */
show();
exit(0);
case 'H': /* --hardware */
nopolicy();
hardware();
exit(0);
case 'i': /* --interleave */
checknuma();
if (parse_all)
mask = numactl_parse_nodestring(optarg, ALL);
else
mask = numactl_parse_nodestring(optarg, CPUSET);
if (!mask) {
printf (<%s> is invalid\n", optarg);
usage();
}

errno = 0;
did_node_cpu_parse = 1;
setpolicy(MPOL_INTERLEAVE);
if (shmfd >= 0)
numa_interleave_memory(shmptr, shmlen, mask);
else
numa_set_interleave_mask(mask);
checkerror("setting interleave mask");
break;
case 'N': /*--cpunodebind*/
case 'c': /*--cpubind*/
dontshm("-c/--cpubind/--cpunodebind");
checknuma();
if (parse_all)
    mask = numactl_parse_nodestring(optarg, ALL);
else
    mask = numactl_parse_nodestring(optarg, CPUSSET);
if (!mask) {
    printf("<%s> is invalid\n", optarg);
    usage();
}
errno = 0;
check_cpubind(do_shm);
did_cpubind = 1;
did_node_cpu_parse = 1;
numa_run_on_node_mask_all(mask);
checkerror("sched_setaffinity");
break;
case 'C': /*--physcpubind*/
{
    struct bitmask *cpubuf;
    dontshm("-C/--physcpubind");
    if (parse_all)
        cpubuf = numa_parse_cpustring_all(optarg);
    else
        cpubuf = numa_parse_cpustring(optarg);
    if (!cpubuf) {
        printf("<%s> is invalid\n", optarg);
        usage();
    }
    errno = 0;
    check_cpubind(do_shm);
did_cpubind = 1;
did_node_cpu_parse = 1;
numa_sched_setaffinity(0, cpubuf);
checkerror("sched_setaffinity");
    free(cpubuf);
    break;
}
case 'm': /*--membind*/
checknuma();
setpolicy(MPOL_BIND);
if (parse_all)
    mask = numactl_parse_nodestring(optarg, ALL);
else
mask = numactl_parse_nodestring(optarg, CPUSet);
if (!mask) {
    printf("<%s> is invalid\n", optarg);
    usage();
}
errno = 0;
did_node_cpu_parse = 1;
n numa_set_bind_policy(1);
if (shmfd >= 0) {
    numa_tonodemask_memory(shmptr, shmlen, mask);
} else {
    numa_set_membind(mask);
}
n numa_set_bind_policy(0);
checkerror("setting membind");
break;

-case 'p': /* --preferred */
checknuma();
setpolicy(MPOL_PREFERRED);
if (parse_all)
    mask = numactl_parse_nodestring(optarg, ALL);
else
    mask = numactl_parse_nodestring(optarg, CPUSet);
if (!mask) {
    printf("<%s> is invalid\n", optarg);
    usage();
}
for (i=0; i<mask->size; i++) {
    if (numa_bitmask_isbitset(mask, i)) {
        node = i;
nodes++;
    }
}
if (nodes != 1)
    usage();
n numa_bitmask_free(mask);
errno = 0;
did_node_cpu_parse = 1;
n numa_set_bind_policy(0);
if (shmfd >= 0)
    numa_tonode_memory(shmptr, shmlen, node);
else
    numa_set_preferred(node);
checkerror("setting preferred node");
break;
-case 'l': /* --local */
checknuma();
setpolicy(MPOL_DEFAULT);
errno = 0;
if (shmfd >= 0)
    numa_setlocal_memory(shmptr, shmlen);
else
    numa_set_localalloc();
checkerror("local allocation");
break;

case 'S': /* --shm */
    check_cpubind(did_cpubind);
nopolicy();
    attach_sysvshm(optarg, "--shm");
    shmattached = 1;
    break;

case 'T': /* --file */
    check_cpubind(did_cpubind);
nopolicy();
    attach_shared(optarg, "--file");
    shmattached = 1;
    break;

case 'L': /* --length */
    noshm("--length");
    shmlen = memsize(optarg);
    break;

case 'M': /* --shmmode */
    noshm("--shmmode");
    shmmode = strtoul(optarg, &end, 8);
    if (end == optarg || *end)
        usage();
    break;

case 'd': /* --dump */
    if (shmfd < 0)
        complain("Cannot do --dump without shared memory.");
        dump_shm();
    do_dump = 1;
    break;

case 'D': /* --dump-nodes */
    if (shmfd < 0)
        complain("Cannot do --dump-nodes without shared memory.");
        dump_shm_nodes();
    do_dump = 1;
    break;

case 't': /* --strict */
    did_strict = 1;
    numa_set_strict(1);
    break;
case 'T': /* --shmid */
    shmid = strtoul(optarg, &end, 0);
    if (end == optarg || *end)
        usage();
    break;

    case 'u': /* --huge */
    noshm("--huge");
    shmflags |= SHM_HUGETLB;
    break;

    case 'o': /* --offset */
    noshm("--offset");
    shmoffset = memsize(optarg);
    break;

    case 'T': /* --touch */
    needshm("--touch");
    check_shmbeyond("--touch");
    numa_police_memory(shmptr, shmlen);
    break;

    case 'V': /* --verify */
    needshm("--verify");
    if (set_policy < 0)
        complain("Need a policy first to verify");
    check_shmbeyond("--verify");
    numa_police_memory(shmptr, shmlen);
    if (!mask)
        complain("Need a mask to verify");
    else
        verify_shm(set_policy, mask);
    break;

    case 'a': /* --all */
    check_all_parse(did_node_cpu_parse);
    parse_all = 1;
    break;
    default:
    usage();
} }

av += optind;
ac -= optind;

if (shmfd >= 0) {
    if (*av)
usage();
exit(exitcode);
}

if (did_strict)
fprintf(stderr,
"numactl: warning. Strict flag for process ignored.
");

if (do_dump)
usage_msg("cannot do --dump|--dump-shm for process");

if (shmoption)
usage_msg("shm related option %s for process", shmoption);

if (*av == NULL)
usage();
execvp(*av, av);
complain("execution of `%s': %s
", av[0], strerror(errno));
return 0; /* not reached */
}

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1.609 ojdbc6 java 11.2.0.4

1.610 oliveagle/jsonpath

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/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a { @code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * { @code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the { @code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
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 * subset test.
 */
Permission objects are similar to String objects in that they are immutable once they have been created. Subclasses should not provide methods that can change the state of a permission once it has been created.

@see Permissions
@see PermissionCollection

@author Marianne Mueller
@author Roland Schemers

public abstract class Permission implements Guard, java.io.Serializable {

private static final long serialVersionUID = -563657022231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 *
 * @param name name of the Permission object being created.
 *
 */

public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The SecurityManager.checkPermission method is called, passing this permission object as the permission to check. Returns silently if access is granted. Otherwise, throws a SecurityException.
 *
 * @param object the object being guarded (currently ignored).
 *
 * @throws SecurityException
 *         if a security manager exists and its [code checkPermission] method doesn't allow access.
 *
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission

*
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 */

/**
 * The required [ @code hashCode] behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 *     once during an execution of a Java application, the
 *     [ @code hashCode] method
 *     must consistently return the same integer. This integer need not
 * */
* remain consistent from one execution of an application to another
* execution of the same application.
* <li>If two Permission objects are equal according to the
* { @code equals }
* method, then calling the { @code hashCode} method on each of the
* two Permission objects must produce the same integer result.
* </ul>
*
* @return a hash code value for this object.
*/

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a { @code java.io.FilePermission},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the { @code getActions} method is invoked.
 *
 * @return the actions of this Permission.
 */

public abstract String getActions();
/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions")', or
 * ('ClassName" "name")' if actions list is null or empty.
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */

public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
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         */
    ;

    private static final String ORACLE_AFTER2012 =
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    ;

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 */
";

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}
private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
}

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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
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    }
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------------------------------------------------------------------------------
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html, body { background: #fff; color: #000; } /* body for Windows IE3 */
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/**
 * @test
 * @bug 4886069 8023045
 * @summary Confirm that printer recognizes the Legal selection either by
 *          prompting the user to put Legal paper or automatically selecting
 *          the tray containing Legal Paper. The printout image should not
 *          be shifted up by about 3".
 * @run main/manual PrintTest
 * 
 */

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.print.*;
import javax.print.*;
import javax.print.attribute.*;
import java.io.*;

public class PrintTest extends JFrame {
    private JPanel contentPane;
    private JMenuBar jMenuBar1 = new JMenuBar();
    private JMenu jMenuFile = new JMenu();
    private JMenuItem jMenuItem1 = new JMenuItem();
    private BorderLayout borderLayout1 = new BorderLayout();
    private JPanel jPanel1 = new JPanel();
    private BorderLayout borderLayout2 = new BorderLayout();
    private JScrollPane jScrollPane1 = new JScrollPane();

    public static void main(String[] args) {
        new PrintTest();
    }

    public PrintTest() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        JFrame.setDefaultLookAndFeelDecorated(true);

        // Add components to content pane
        contentPane = new JPanel();
        contentPane.add(jPanel1, BorderLayout.CENTER);
        jScrollPane1.setViewportView(contentPane);
        jScrollPane1.setVerticalScrollBarPolicy(ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS);
        jScrollPane1.setSize(jScrollPane1.getPreferredSize());
        add(jScrollPane1, BorderLayout.CENTER);

        // Set layout manager
        jMenuBar1.setLayout(new BorderLayout());
        jMenuFile.setLayout(new BorderLayout());
        jMenuItem1.setLayout(new BorderLayout());

        // Set menu items
        jMenuItem1.setText("Print Settings");
        jMenuItem1.addActionListener((ActionEvent e) -> {
            Properties properties = new Properties();
            properties.put("print-settings", "true");
            properties.put("paper-size", "Legal");
            printDoc();
        });

        // Add menu items to JMenu
        jMenuFile.add(jMenuItem1);

        // Add menu to JMenuBar
        jMenuBar1.add(jMenuFile);

        // Add menu bar to JFrame
        setJMenuBar(jMenuBar1);

        // Show JFrame
        setVisible(true);
    }

    private void printDoc() {
        // Add print attributes
        PrintJob printJob = printer.printDocument(null, (PrintRequestAttributeSet) null);
        try {
            printJob.print();
        } catch (PrintException e) {
            System.out.println("Error printing: " + e.getMessage());
        }
    }
}
private JTextArea jTextArea1 = new JTextArea();
private Border border1;

//Construct the frame
public PrintTest() {
    enableEvents(AWTEvent.WINDOW_EVENT_MASK);
    try {
        jbInit();
    }
    catch(Exception e) {
        e.printStackTrace();
    }
    private void jbInit() throws Exception {
        contentPane = (JPanel) this.getContentPane();
        border1 = BorderFactory.createLineBorder(Color.black, 1);
        contentPane.setLayout(borderLayout1);
        this.setTitle("Print Test");
        jMenuItem1.setText("File");
        jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(80, java.awt.event.KeyEvent.CTRL_MASK, false));
        jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(ActionEvent e) {
                jMenuItem1_actionPerformed(e);
            }
        });
        jPanel1.setLayout(borderLayout2);
        jTextArea1.setBorder(border1);
        jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.
2. This is a printer test designed to illustrate a bug in the java printing API.
3. This is a printer test designed to illustrate a bug in the java printing API.
4. This is a printer test designed to illustrate a bug in the java printing API.
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17. This is a printer test designed to illustrate a bug in the java printing API.
18. This is a printer test designed to illustrate a bug in the java printing API.");
        jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.\n2. This is a printer test designed to illustrate a bug in the java printing API.\n3. This is a printer test designed to illustrate a bug in the java printing API.\n4. This is a printer test designed to illustrate a bug in the java printing API.\n5. This is a printer test designed to illustrate a bug in the java printing API.\n6. This is a printer test designed to illustrate a bug in the java printing API.\n7. This is a printer test designed to illustrate a bug in the java printing API.\n8. This is a printer test designed to illustrate a bug in the java printing API.\n9. This is a printer test designed to illustrate a bug in the java printing API.\n10. This is a printer test designed to illustrate a bug in the java printing API.\n11. This is a printer test designed to illustrate a bug in the java printing API.\n12. This is a printer test designed to illustrate a bug in the java printing API.\n13. This is a printer test designed to illustrate a bug in the java printing API.\n14. This is a printer test designed to illustrate a bug in the java printing API.\n15. This is a printer test designed to illustrate a bug in the java printing API.\n16. This is a printer test designed to illustrate a bug in the java printing API.\n17. This is a printer test designed to illustrate a bug in the java printing API.\n18. This is a printer test designed to illustrate a bug in the java printing API.\n");

}};
jPanel1.setLayout(borderLayout2);
jTextArea1.setBorder(border1);
jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API.\n2. This is a printer test designed to illustrate a bug in the java printing API.\n3. This is a printer test designed to illustrate a bug in the java printing API.\n4. This is a printer test designed to illustrate a bug in the java printing API.\n5. This is a printer test designed to illustrate a bug in the java printing API.\n6. This is a printer test designed to illustrate a bug in the java printing API.\n7. This is a printer test designed to illustrate a bug in the java printing API.\n8. This is a printer test designed to illustrate a bug in the java printing API.\n9. This is a printer test designed to illustrate a bug in the java printing API.\n10. This is a printer test designed to illustrate a bug in the java printing API.\n11. This is a printer test designed to illustrate a bug in the java printing API.\n12. This is a printer test designed to illustrate a bug in the java printing API.\n13. This is a printer test designed to illustrate a bug in the java printing API.\n14. This is a printer test designed to illustrate a bug in the java printing API.\n15. This is a printer test designed to illustrate a bug in the java printing API.\n16. This is a printer test designed to illustrate a bug in the java printing API.\n17. This is a printer test designed to illustrate a bug in the java printing API.\n18. This is a printer test designed to illustrate a bug in the java printing API.");
"19. This is a printer test designed to illustrate a bug in the java printing API."
"20. This is a printer test designed to illustrate a bug in the java printing API."
"21. This is a printer test designed to illustrate a bug in the java printing API."
"22. This is a printer test designed to illustrate a bug in the java printing API."
"23. This is a printer test designed to illustrate a bug in the java printing API."
"24. This is a printer test designed to illustrate a bug in the java printing API."
"25. This is a printer test designed to illustrate a bug in the java printing API."
"26. This is a printer test designed to illustrate a bug in the java printing API."
"27. This is a printer test designed to illustrate a bug in the java printing API."

protected void processWindowEvent(WindowEvent e) {
    super.processWindowEvent(e);
    if (e.getID() == WindowEvent.WINDOW_CLOSING) {
        System.exit(0);
    }
}

void jMenuItem1_actionPerformed(ActionEvent e) {
    PrintUtils.printComponent(jTextArea1);
}

public static class PrintUtils implements Printable {
    private JComponent componentToBePrinted;
    protected double scale = 1.0;
    PrintRequestAttributeSet pras = new HashPrintRequestAttributeSet();

    public static void printComponent(JComponent c) {
        new PrintUtils(c).print();
    }

    public PrintUtils(JComponent componentToBePrinted) {
        this.componentToBePrinted = componentToBePrinted;
    }
}

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void print() {
    DocFlavor flavor = DocFlavor.SERVICE_FORMATTED.PRINTABLE;
    pras.add(MediaSizeName.NA_LEGAL);

    PrintService printService[] = PrintServiceLookup.lookupPrintServices(flavor, pras);
    PrintService defaultService = PrintServiceLookup.lookupDefaultPrintService();
    if ((defaultService == null) || (printService.length == 0)) {
        System.out.println("No default print service found. Test aborted.");
        return;
    }

    PrintService service = ServiceUI.printDialog(null, 100, 100, printService, defaultService, flavor, pras);

    if (service != null) {
        DocPrintJob job = service.createPrintJob();
        DocAttributeSet das = new HashDocAttributeSet();

        Doc doc = new SimpleDoc(this, flavor, das);

        try {
            job.print(doc, pras);
        } catch (PrintException pe) {
            pe.printStackTrace();
        }
    }
}

public int print(Graphics g, PageFormat pageFormat, int pageIndex) {
    double h = componentToBePrinted.getHeight();
    double pageHeight = pageFormat.getImageableHeight();

    if (pageIndex * pageHeight > h * scale) {
        return(NO_SUCH_PAGE);
    } else {
        Graphics2D g2d = (Graphics2D)g;

        // move past unprintable area
        double xOffset = pageFormat.getImageableX();
        double yOffset = pageFormat.getImageableY();
        g2d.translate(xOffset, yOffset);
    }
}
//move to correct page taking into account the scaling
double newx=0;
double newy=pageHeight*(-pageIndex);
g2d.translate(newx / 1.0,newy / 1.0 );

//print

cOMPONENTtoprint.print(g2d);
return(PAGE_EXISTS);
}
}

public static void disableDoubleBuffering(Component c) {
RepaintManager currentManager = RepaintManager.currentManager(c);
currentManager.setDoubleBufferEnabled(false);
}

/** Re-enables double buffering globally. */
public static void enableDoubleBuffering(Component c) {
RepaintManager currentManager = RepaintManager.currentManager(c);
currentManager.setDoubleBufferEnabled(true);
}

public static void main(String[] args) {
try {
UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
}
catch(Exception e) {
e.printStackTrace();
}
PrintTest frame = new PrintTest();
frame.pack();

Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
Dimension frameSize = frame.getSize();
if (frameSize.height > screenSize.height) {
frameSize.height = screenSize.height;
}
if (frameSize.width > screenSize.width) {
frameSize.width = screenSize.width;
}
frame.setLocation((screenSize.width - frameSize.width) / 2, (screenSize.height - frameSize.height) / 2);
frame.setVisible(true);
}
/*
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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

/**
 *
 */
import java.rmi.Remote;
public interface Legal extends Remote {};
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Version 2, June 1991

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<component name="CopyrightManager">
<settings default="langtools">
  <LanguageOptions name="JAVA">
    <option name="fileLocation" value="1" />
  </LanguageOptions>
</settings>
</component>
```
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# questions.
#
# Version
#
# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGC Serif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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 */
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
            "/*
             * Copyright (c) %d, Oracle and/or its affiliates. All rights reserved.
             */
    ;

    private static final String ORACLE_AFTER2012 =
            "/*
             * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.
             */
    ;

    // Last updated: - 6/06/2016, 1:42:31 PM
    private static final String UNICODE =
            "/*
             * COPYRIGHT AND PERMISSION NOTICE
             *
             * Copyright (C) 1991-2016 Unicode, Inc. All rights reserved.
             * Distributed under the Terms of Use in
             * http://www.unicode.org/copyright.html.
             *
             * Permission is hereby granted, free of charge, to any person obtaining
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             * of the Data Files or Software,
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             * documentation, and
             * (c) there is clear notice in each modified Data File or in the Software
             * as well as in the documentation associated with the Data File(s) or
             * Software that the data or software has been modified.
             */
    ;
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" */

private static String OPENJDK2012 =
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"

private static String OPENJDK_AFTER2012 =
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"* or visit www.oracle.com if you need additional information or have any\n" +
"* questions.\n" +
"*/

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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Abstract class for representing access to a system resource.
All permissions have a name (whose interpretation depends on the subclass),
as well as abstract functions for defining the semantics of the
particular Permission subclass.

Most Permission objects also include an "actions" list that tells the actions
that are permitted for the object. For example,
for a `java.io.FilePermission` object, the permission name is
the pathname of a file (or directory), and the actions list
(such as "read, write") specifies which actions are granted for the
specified file (or for files in the specified directory).
The actions list is optional for Permission objects, such as
`java.lang.RuntimePermission`,
that don't need such a list; you either have the named permission (such
as "system.exit") or you don't.

An important method that must be implemented by each subclass is
the `implies` method to compare Permissions. Basically,
"permission p1 implies permission p2" means that
if one is granted permission p1, one is naturally granted permission p2.
Thus, this is not an equality test, but rather more of a
subset test.

Permission objects are similar to String objects in that they
are immutable once they have been created. Subclasses should not
provide methods that can change the state of a permission
once it has been created.

@see Permissions
* @see PermissionCollection
*
* @author Marianne Mueller
* @author Roland Schemers
* @since 1.2
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     * @param name name of the Permission object being created.
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * SecurityManager.checkPermission method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     * @param object the object being guarded (currently ignored).
     * @throws SecurityException if a security manager exists and its
     *    checkPermission method doesn't allow access.
     * @see Guard
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }
}
/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * </p>
 * <p>The `{code implies}` method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * </p>
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the `{code equals}` method for making access control
 * decisions; use the `{code implies}` method.
 * </p>
 * @param obj the object we are testing for equality with this object.
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required `{code hashCode}` behavior for Permission Objects is
 * the following:
 * </p>
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * `{code hashCode}` method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application.
 * </li>
 * <li>If two Permission objects are equal according to the
 * `{code equals}` method, then calling the `{code hashCode}` method on each of the
 * two Permission objects must produce the same integer result.
 * </li>
 */
public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \texttt{@code java.io.FilePermission},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the \texttt{@code getActions} method is invoked.
 *
 * @return the actions of this Permission.
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the \texttt{@code PermissionCollection.implies} method is called.
public PermissionCollection newPermissionCollection() {
    return null;
}

public String toString() {
    String actions = getActions();  
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 * @since 1.1
 *
 * @deprecated This class is deprecated and subject to removal in a future
 * version of Java SE. It has been replaced by @{code java.security.Policy}
 * and related classes since 1.2.
 */
@Deprecated(since="9", forRemoval=true)
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();

    }

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Mesa 3-D graphics library

Version: 4.1

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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {
    public CopyingResponse() {}
    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

import java.rmi.Remote;
public interface Legal extends Remote;
platform=bsd
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 */
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import java.util.GregorianCalendar;
import java.util.Locale;
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 */
"

private static String OPENJDK_AFTER2012 =
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" *\n"

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    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                   Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}
}
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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a \@code java.io.FilePermission\] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * \@code java.lang.RuntimePermission\],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * An important method that must be implemented by each subclass is
 * the \@code implies\] method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <P> Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
*
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * [ @code SecurityManager.checkPermission] method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     * if a security manager exists and its
     * [ @code checkPermission] method doesn't allow access.
     */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * *
 * <p>The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * *
 * @param permission the permission to check against.
 * *
 * @return true if the specified permission is implied by this object,
 * false if not.
 * */

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 * *
 * @param obj the object we are testing for equality with this object.
 * *
 * @return true if both Permission objects are equivalent.
 * */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
* Whenever it is invoked on the same Permission object more than
  * once during an execution of a Java application, the
  * `{@code hashCode}` method
  * must consistently return the same integer. This integer need not
  * remain consistent from one execution of an application to another
  * execution of the same application.
* If two Permission objects are equal according to the
  * `{@code equals}`
  * method, then calling the `{@code hashCode}` method on each of the
  * two Permission objects must produce the same integer result.
* */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a `{@code java.io.FilePermission}`,
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the `{@code getActions}` method is invoked.
 *
 * @return the actions of this Permission.
 */
public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" name" "actions"'), or
 * ('ClassName" name") if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + "")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 * 
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     * 
     * @param another the Permission object to compare with.
     * 
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     * 
     * @return the string representation of the permission.
     */
    public String toString();
}
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#
# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/shanheisun_uni.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/zenkai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf
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1.616 openssh 7.4p1 :21.el7
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRD 0x0008
#define POLLPRI 0x0010
#define POLLRD0 0x020
#define POLLRDNORM 0x0040
#define POLLM 0x0080
#define POLLRDBAND 0x0100

#ifndef COMPAT_POLL_H_

/* the following are currently not implemented */
#endif

---

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#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 HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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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 */

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/* OPENBSD ORIGINAL: sys/sys/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;

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#if defined_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
    } pollfd_t;

typedef unsigned int nfds_t;

#else /* OPENBSD ORIGINAL: sys/sys/poll.h */

#endif /* OPENBSD ORIGINAL: sys/sys/poll.h */

#endif
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRERR 0x0008
#if 0
    /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLWRBAND
#define POLLWRBAND 0x0080
#define POLLRDDBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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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)((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w)) & 0177) : -1)
#define WCOREFLAG0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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@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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* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com

diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
  .Op Fl P Ar blacklisted_requests
  .Op Fl p Ar whitelisted_requests
  .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
  .Ek
  .Nm
  .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@
Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@
/* Version of client */
static u_int version;
/+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
  /* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@
attrib a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+    mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
@@ -688,6 +693,10 @@
    debug3("request %u: open flags %d", id, pflags);
    flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+    mode = permforcemode;
+}
+old_umask = umask(0); /* so umask does not interfere */
+
+logit("open \"%s\" flags %s mode 0%o",
+    name, string_from_portable(pflags), mode);
+if (readonly &&
+    @ @ -709,6 +718,8 @@ process_open(u_int32_t id)
+    }
+
+if (permforce == 1)
+    +(void) umask(old_umask); /* restore umask to something sane */
+if (status != SSH2_FX_OK)
+    send_status(id, status);
+free(name);
+
+if (status != SSH2_FX_OK)
+    send_status(id, status);
+free(name);
@ @ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
   [-l log_level] [-P blacklisted_requests] 
   [-p whitelisted_requests] [-u umask]n" 
   %s -Q protocol_feature
",
    __progname, __progname);
exit(1);
@ @ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);
while (!skipargs && (ch = getopt(argc, argv,
    "d:f:l:P:p:Q:u:cehR") != -1) { /* Force permissions on file received via sftp */
    switch (ch) {
+    case 'Q':
        if (strcasecmp(optarg, "requests") != 0) {
            @ @ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
fatal("Invalid umask \"%s\"", optarg);
            (void)umask((mode_t)mask);
            break;
+    case 'm':
+*/ Force permissions on file received via sftp */
+    permforce = 1;
+    permforcemode = strtol(optarg, &cp, 8);
+    if (permforcemode < 0 || permforcemode > 0777 ||
+        *cp != '\0' || (permforcemode == 0 &&
+        errno != 0))
+        fatal("Invalid file mode \"%s\"", optarg);
+    break;
case 'h':
default:
sftp_server_usage();

1.617 openssh-client 1:7.4p1-10+deb9u3

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_ 1
#define COMPAT_POLL_H
#endif

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 0x0100
#define POLLNVAL 0x0200
#if 0
#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
#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 */

1.618 openssh-clients 7.4p1 :21.el7

1.619 openssh-server 1:7.4p1-10+deb9u3

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#ifndef HAVE_SETREGSID
int setreggid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRUID
int setruid(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)
#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
    #define POLLPRI 0x0002
    #define POLLRDNORM 0x0040
    #define POLLNORM POLLRDNORM
    #define POLLWRNORM
#endif

#define INFTIM (-1)

int poll(struct pollfd *, nfds_t, int);
#endif
#endif /* !_COMPAT_POLL_H_ */

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* /

#define _BSD_WAITPID_H
#define _BSD_WAITPID_H

#define 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 */
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* @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>
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#elif !defined_COMPAT_POLL_H_
#defineCompat_POLL_H_

typedef struct pollfd {
   int fd;
   short events;
   short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNRDNORM0x0040
#define POLLNORMPOLLRDNRDNORM
#define POLLWRNORM POLLOUT
#define POLLRBAND0x0080
#define POLLWRBAND0x0100
#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
#endif

/* 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

#endif
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1.623 openssl 1.0.2k-16.el7

1.624 openssl 1.0.2k :19.el7

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1.634 pcre 8.39-3
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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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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.

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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
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

#!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 TestInit;
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;
}

Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
27126
sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcodes/*
ext/PerlIO-encoding/*
ext/PerlIO-scalars/*
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1.638 perl-base 5.24.1-3+deb9u4

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---
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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---

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
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version: 3

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

#!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 TestInit;
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) = $output =~ /copyright 1987.*\b\d{4,}]/i
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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<one line to give the program's name and a brief idea of what it does.>
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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
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<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```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 TestInit;
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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attach them to the start of each source file to most effectively convey
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"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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If the program is interactive, make it output a short notice like this
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    Gnomovision version 69, Copyright (C) 19xx name of author
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    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
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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:

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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!

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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\n    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

# perl

copyright.t

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 TestInit;
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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Version 1, February 1989

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1.641 pierrec/lz4
6b9367c9ff401dbc54fabce3fb8d972e799b702d

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1.648 polkit 0.112 :22.el7_7.1
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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

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
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 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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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
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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

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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); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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

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UUencode and UUdecode functions
-----------------------------------------

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

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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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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.

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=========================

Python was created in the early 1990s by Guido van Rossum at Stichting
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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 https://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
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<th>2000</th>
<th>BeOpen.com</th>
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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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Sockets
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Asynchronous socket services
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UUencode and UUdecode functions
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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 version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

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

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libffi
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zlib
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cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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libmpdec
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 https://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

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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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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);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions
---------------------------------

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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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strtod and dtoa

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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.

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<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
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</table>

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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)
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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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Original location:
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Solution inspired by code from:
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::
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libmpdec
--------

The :mod:`decimal` Module is built using an included copy of the libmpdec library unless the build is configured ``--with-system-libmpdec``:

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1.661 python-babel 0.9.6 :8.el7

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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 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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1.677 python-idna 2.4 :1.el7
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1.679 python-ipaddress 1.0.17-1

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1.680 python-IPy 0.75 :6.el7

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1.681 python-jinja2 2.7.2 :4.el7

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1.682 python-jsonpatch 1.2 :4.el7

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1.683 python-jsonpointer 1.9 :2.el7

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1.684 python-libs 2.7.5 :86.el7

1.685 python-linux-procfs 0.4.11 :4.el7

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1.687 python-markupsafe 0.11 :10.el7

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1.688 python-minimal 2.7.13-2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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
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1.689 python-paramiko 2.0.0-1

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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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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file
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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.
Any executables containing that work also fall under Section 6,
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(For example, a function in a library to compute square roots has
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1.691 python-paramiko 2.1.1 :4.el7

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1.694 python-pip 9.0.1-2

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1.695 python-pip-whl 9.0.1-2

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1.696 python-pkg-resources 33.1.1-1

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A. HISTORY OF THE SOFTWARE

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 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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1.702 python-pygments 1.4 :10.el7
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(lp1
(ccopy_reg
  _reconstructor
p2
(cpygments.token
  _TokenType
p3
  c__builtin__
tuple
p4
(S'Text'
p5
ttRp6
g45
sbs'SEntity'
p79
g2
(g3
g4
(g44
g79
trRp80
dp81
g8
g9
((ltRp82
sg15
g45
sbs'SBuiltin'
p83
g2
(g3
g4
(g44
g83
trRp84
dp85
g8
g9
((lp86
g2
(g3
g4
(g44
g83
g63
trRp87
dp88
g8
g9
((ltRp89
sg15
g84
sbatRp90
sg63
g87
sg15
g45
sbs'SOther'
p91
g2
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
27755
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27765
V# New ports collection makefile for: python25
V
V# Date created: 3 July 2003
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>
VPORTVERSION
Vlang
python
ipv6
VCATEGORIES
V
tp404
atg6
V\u0000a
tp405
atg100
VMASTER_SITES
p406
tp407
atg353
V=
tp408
atg6
V
tp409
atg138
V$\{ p410
tp411
atg100
VPYTHON_MASTER_SITES
p412
tp413
atg138
V\}
tp414
atg6
V\u0000a
tp415
atg100
VMASTER_SITE_SUBDIR
p416
tp417
atg353
V=
tp418
atg6
V
tp419
atg138
V$\{ p420
tp421
atg100
VPYTHON_MASTER_SITE_SUBDIR
p422
tp423
atg138
V\}
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27773
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27774
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
V$PYTHON_WRKSRCP

GNU_CONFIGURE

CONFIGURE_TARGET
VMACHINE_ARCH

V-portbd-freebsd

VOSREL

VCONFIGURE_SCRIPT

V../configure
V
atg24
V# must be relative
p528
atg100
VCONFIGURE_ENV
p530
atg353
V=
atg6
V
atg100
VOPT
p534
atg353
V=
atg255
V"${CFLAGS}"}
p537
atg6
V
atg100
VSVNVERSION
p540
atg353
V=
atg255
V"echo freebsd"
p543
atg6
V\u000a
atg100
VMAKE_ENV
p546
atg100
V
Valtinstall
p567
.tp568
.atg6
.V\u0000a
.tp569
.atg100
.VMAN1
p570
.tp571
.atg353
.V=
.tp572
.atg6
.V
p573
.tp574
.atg138
.V$}
.p575
.tp576
.atg100
.VPYTHON_VERSION
.p577
.tp578
.atg138
.V}
.tp579
.atg6
.V.1
.p580
.tp581
.atg6
.V\u0000a\u0000a
.p582
.tp583
.atg100
.VUSE_PYTHON
.p584
.tp585
.atg353
.V=
.tp586
.atg6
.V
.tp587
.atg6
.Vyes
VPYTHON_VERSION
Vpython2.5

VPYTHON_NO_DEPENDS
Vyes

VSHARED_WRKSRC
VPLIST_TEMPLATE?
V= VPLIST_SUB
V= VPYVER
V=
VPYTHON_VERSION
p651
tp652
atg212
V:
tp653
atg100
VS
tp654
atg212
V/python/
p655
tp656
atg138
V}
tp657
atg6
V
tp658
atg262
\u005cv\u000au000a
p659
tp660
atg6
V
p661
tp662
atg100
VPYVER_WITHPAT
p663
tp664
atg353
V=
tp665
atg138
VS{
p666
tp667
atg100
VPORTVERSION
p668
tp669
atg212
V:
tp670
atg100
VS
tp671
a(g212
V/.c/c/
p672
tp673
a(g138
V}
tp674
a(g6
V\u000a
ntp675
a(g100
VDEMODIR
p676
ntp677
a(g353
V=
tp678
a(g6
V
tp679
a(g138
V$\
p680
ntp681
a(g100
VPREFIX
p682
ntp683
a(g138
V}
tp684
a(g6
V/share/examples/
p685
ntp686
a(g138
V$\
p687
ntp688
a(g100
VPYTHON_VERSION
p689
ntp690
a(g138
V}
tp691
a(g6
V\u000a
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
a(g6
V
a(g281
V's.(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'

a(g6
V\u0000a\u0000a

a(g100
VOPTIONS

a(g353
V=

a(g6
V

a(g6
VTHREADS

a(g6
V

a(g6
V"Enable thread support"

a(g6
V

a(g6
Von

a(g6
V

a(g6
V

a(g262
V\u005c\u0005c\u0000a

a(g6
V

a(g6
V
Use a larger thread stack

Use UCS4 for unicode support
Use python's internal malloc
Enable IPv6 support

Enable floating point exception handling

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V

V
VIF_DEFAULT

VIF_DEFAULT

VIF_DEFAULT

VIF_DEFAULT
V# workaround for a bug in curses.h

VCFLAGS+

-D__wchar_t

Vwchar_t
VCONFIGURE_ARGS+=

V--with-threads

VCFLAGS+=

V$\

VPTHREAD_CFLAGS

V.if defined(WITHOUT_HUGE_STACK_SIZE)u000a
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27797
V-DTHREAD_STACK_SIZE
p945
tp946
at(g353
V=
tp947
at(g6
V0x100000
p948
tp949
at(g6
V
u000a
at(g27
V endif # defined(WITHOUT_HUGE_STACK_SIZE)

u000a
p951
tp952
at(g6
V
p953
at(g6
VCONFIGURE_ENV+
p954
tp955
at(g353
V=

p956
at(g6
V
p957
tp958
at(g100
VLDFLAGS
p959
tp960
at(g353
V=

p961
at(g255
V"${PTHREAD_LIBS} ${LDFLAGS}" 
p962
tp963
at(g6
V
u000a
p964
tp964
at(g27
V else

u000a
p965
tp966
ag6
V

VCONFIGURE_ARGS+
p968
tp969
ag353
V=
tp970
ag6
V

tp971
ag6
V--without-threads
p972
tp973
ag6
V\u000a

V CONFIGURE_ENV+
p973
ag27
V if defined(LDFLAGS)\u000a

V

V

p975
tp976
ag6
V

V

p977
ag6
V

p981
tp982
ag100
V

p983
tp984
ag353
V=
tp985
ag255
V"${LDFLAGS}"
V\u000a

V.endif


V.if defined(WITHOUT_PYMALLOC)

VCONFIGURE_ARGS+

V=--without-pymalloc

V.if ${ARCH} == i386
a(g6
VPLIST_SUB+
p1028
tp1029
a(g353
V=
tp1030
a(g6
V
tp1031
a(g100
VX86_ONLY
p1032
tp1033
a(g353
V=
tp1034
a(g255
V""
p1035
tp1036
a(g6
V'"000a
tp1037
a(g27
V.else"000a
p1038
tp1039
a(g6
V
tp1040
a(g6
VPLIST_SUB+
p1041
tp1042
a(g353
V=
tp1043
a(g6
V
tp1044
a(g100
VX86_ONLY
p1045
tp1046
a(g353
V=
tp1047
a(g255
V"@comment "
p1048
tp1049
a(g6
Vu000a
tp1050
a(g27
V.endf
u000a
p1051
tp1052
a(g6
V
tp1053
a(g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha
p1054
tp1055
a(g6
V
tp1056
a(g6
VPLIST_SUB+
p1057
tp1058
a(g353
V=
tp1059
a(g6
V
p1060
tp1061
a(g100
V32BIT_ONLY
p1062
tp1063
a(g353
V=
tp1064
a(g255
V"@comment "
p1065
tp1066
a(g6
Vu000a
tp1067
a(g27
V.else
u000a
VPLIST_SUB+

V32BIT_ONLY

V.endif

V.if ${ARCH} == sparc64

VCFLAGS+
a(g353
V=
tp1090
a(g6
V
p1091
tp1092
a(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
a(g353
V=
tp1095
a(g6
V900
p1096
tp1097
a(g6
V\u000a
p1098
a(g27
V.endif\u000a
p1099
tp1100
a(g6
V\u000a
p1101
a(g27
V.if 'exists(/usr/bin/ypcat) # the world with NO_NIS\u000a
p1102
tp1103
a(g6
V
tp1104
a(g6
VPLIST_SUB+
p1105
tp1106
a(g353
V=
tp1107
a(g6
V
tp1108
a(g100
VNO_NIS
p1109
VIFDEF(WITHOUT_IPV6)

VCONFIGURE_ARGS+

V--enable-ipv6

VCONFIGURE_ARGS+

V--disable-ipv6
V.endif

V.if defined(WITH_FPECTL)

V.CONFIGURE_ARGS+=

V.endif

V.if ${OSVERSION} >= 700000

VPLATFORMS
elif ${OSVERSION} >= 600000

V, PLATFORMS

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6

V, plat-freebsd4

V, plat-freebsd5

V, plat-freebsd6
Vplat-freebsd5
p1191
tp1192
atg6
V
tp1193
atg6
Vplat-freebsd7
p1194
tp1195
atg6
V\\u000a

VPlans
V= tp1199
atg100
VPLATFOMS
p1200
tp1201
atg353
V=
tp1202
atg6
Vplat-freebsd4
p1203
tp1204
atg6
V

Vplat-freebsd7
p1206
tp1207
atg6
V
tp1208
atg6
Vplat-freebsd7
p1209

V= tp1210
V\\u000a

Vv00000a
Vv00000a

Vv00000a
Vv00000a

Vv00000a
Vv00000a

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Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27824
p1534
p1535
a(g100
VPYTHON_VERSION
p1536
tp1537
a(g212
V:
tp1538
a(g100
VS
tp1539
a(g212
V/thon/thon-shared/
p1540
tp1541
a(g138
V)
tp1542
a(g6
V-config
p1543
tp1544
a(g6
V\u000a\u000a
p1545
tp1546
a(g27
V.if defined(WITH_FPECTL) && ${ARCH} == i386\u000a
p1547
tp1548
a(g6
V
p1549
a(g138
V$

p1550
tp1551
a(g100
VMKDIR
p1552
tp1553
a(g138
V)

p1554
a(g6
V
p1555
V/Lib
p1659
tp1660
a[g6
V\u0000a
p1661
tp1662
a[g138
V$\

p1663
tp1664
a[g100
VSED
p1665
tp1666
a[g138
V\

p1667
a[g6
V

tp1668
a[g6
V-e
p1669
tp1670
a[g6
V

tp1671
a[g281
V's,\u005c(LDLIBRARY=\u005c.$\u005c1libpython$$(VERSION).so,'

p1672
tp1673
a[g6
V

tp1674
a[g262
V\u0000a
p1675
tp1676
a[g6
V

p1677
tp1678
a[g6
V-e
p1679
tp1680
a[g6
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27836
```bash
VSETENV
p1767
tp1768
at(g138
V}
tp1769
at(g6
V

V$\{p1771
tp1772
at(g100
VMAKE_ENV
p1773
tp1774
at(g138
V}
tp1775
at(g6
V

V$\{p1777
tp1778
at(g100
VMAKE
p1779
tp1780
at(g138
V}
tp1781
at(g6
V

V$\{p1785
tp1786
at(g100
VPYTHON_VERSION
p1787
```
V)

pre-su-install:

for platform in ${PLATFORMS}

VMKDIR

VPYTHONPREFIX_LIBDIR


Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27843
V.tmp
p2037
tp2038
at(g6
V
tp2039
at(g6
V>
tp2040
at(g6
V
tp2041
at(g138
V$\{\
p2042
tp2043
at(g100
VPLIST
p2044
tp2045
at(g138
V\
}
tp2046
at(g353
V)
tp2047
at(g6
V
tp2048
at(g353
V||
p2049
tp2050
at(g6
V
tp2051
at(g138
V$\{\
p2052
tp2053
at(g100
VTRUE
p2054
tp2055
at(g138
V\
}
tp2056
at(g6
}
p2057
tp2058
at(g6
Vpost-install:
p2059
tp2060
at(g6
V\u0000a
 tp2061
at(g24
V@@# install config providers\u0000a
 p2062
 tp2063
at(g6
 V
tp2064
at(g138
V$
 p2065
tp2066
at(g100
VINSTALL_SCRIPT
 p2067
tp2068
at(g138
V}
tp2069
at(g6
V
tp2070
at(g138
V$
 p2071
tp2072
at(g100
VWRKDIR
 p2073
tp2074
at(g138
V}
tp2075
at(g6
V/
tp2076
at(g138
V$
 p2077
p2120
tp2121
a(g138
V}
tp2122
a(g6
V/bin
p2123
 tp2124
a(g6
V\u000a\u000a
p2125
 tp2126
a(g24
V@@# shared version of executable and library\u000a
p2127
 tp2128
a(g6
V
 tp2129
a(g138
V${
 p2130
 tp2131
a(g100
VINSTALL_PROGRAM
p2132
 tp2133
a(g138
V}
tp2134
a(g6
V
 tp2135
a(g138
V${
 p2136
 tp2137
a(g100
VSHARED_WRKSRC
p2138
 tp2139
a(g138
V}
tp2140
a(g6
V/lib
p2141
```python
import os

# Getting the version of Python
VPYTHON_VERSION = os.environ.get('VPYTHON_VERSION', '0.1.0')

# Getting the prefix directory
VPREFIX = os.environ.get('VPREFIX', '/usr/local')

# Getting the path to lib directory
V/lib = os.path.join(VPREFIX, 'lib')
```

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27855
VSHARED_WRK_SRC

V PYTHON_VERSION

V/thon/thon-shared/

V\u005cu000a
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

27861

```
VPREFIX
V
V@# additional files installing by ports\u000a
V
V
V
V
V
V
V
V
V
V
```

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27861
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
27863
```bash
V
p2359
tp2360
at(g138)
V${}
p2361
tp2362
at(g100)
VMANPREFIX
p2363
tp2364
at(g138)
V}
tp2365
at(g6)
V/man/man1/
p2366
tp2367
at(g138)
V${}
p2368
tp2369
at(g100)
VPYTHON_VERSION
p2370
tp2371
at(g138)
V}
tp2372
at(g6)
V.1
p2373
tp2374
at(g6)
V\u000a\u000a
p2375
tp2376
at(g27)
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\u000a
p2377
tp2378
at(g6)
V
tp2379
at(g138)
Vfor
p2380
tp2381
```
VCAT

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1.703 python-pyudev 0.15 :9.el7

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1.704 python-pyyaml 3.11 :r0
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1.705 python-requests 2.6.0 :5.el7

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Requests includes some vendorized python libraries to ease installation.

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1.706 python-schedutils 0.4 :6.el7

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1.707 python-setuptools 33.1.1-1

1.707.1 Available under license:

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PSF

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A. HISTORY OF THE SOFTWARE

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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 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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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSCollectionPool
  * Basic-authenticated HTTPSCollectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSCollectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFxQB6/>
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* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elasticsearch.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanyeh@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.712 python-wheel 0.29.0-2
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1.713 python2-pip 8.1.2 :5.el7
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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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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 `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/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.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, 'http://www.wide.ad.jp/about/index.html'.

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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 version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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Mersenne Twister
--------------

The :mod:`_random` module includes code based on a download from
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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)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` socket` module uses the functions, `func:` getaddrinfo`, and `func:` getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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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);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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

XML Remote Procedure Calls

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

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test_epoll
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-------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 https://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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and
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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

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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); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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 version is still 5 times faster, though.
- Arguments more compliant with Python standard

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```
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-----

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```

```
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-----

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==============

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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 `_random' module includes code based on a download from
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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.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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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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1.719 qemu-img 1.5.3 :160.el7

1.720 quota 4.01 :19.el7

1.721 quota-nls 4.01 :19.el7

1.722 readline 4.4-5

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Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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This package was put together by Matthias Klose <doko@debian.org>, derived from the bash package by Guy Maor <maor@debian.org>, from the GNU sources at

ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.
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1.726 registry 2.7.1

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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END OF TERMS AND CONDITIONS

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Ty Coon, President of Vice

That's all there is to it!

1.731 rpm-build-libs 4.11.3 :40.el7

1.732 rpm-libs 4.11.3 :40.el7

1.733 rpm-python 4.11.3 :40.el7
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package scala.xml

/**
 * This singleton object contains the `apply` and `unapplySeq` methods for
 * convenient construction and deconstruction. It is possible to deconstruct
 * any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
 * syntax `case Elem(prefix, label, attribs, scope, child @ _*) => ...`
 * 
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1.746 sensible-utils 0.0.9+deb9u1

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1.748 sg3_utils 1.37 :18.el7_7.1
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//
// For more information: http://goo.gl/8us55a#licenseObject
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    URL  string `json:"url,omitempty"`
}

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1.770 spf13/pflag

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
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Burr, Michael E
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Knoble, Jim
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Komarnitsky, Alek O.
Kondrashov, Nikolai
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Makey, Jeff
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Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
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Moffat, Darren
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Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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Jerovek, Damir
Karvonen, Jorma
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1.792 systemd-libs 219 :67.el7_7.1

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1.795 sysv-rc 2.88dsf-59.9

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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).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

This package contains the scripts that are executed at start and shutdown of Debian systems.

This package is built from the `sysvinit` source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

http://alioth.debian.org/projects/pkg-sysvinit

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.
This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.

In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl/pub/people/miquels/software
   92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
   92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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).
* Written by Marek Michalkiewicz <marekm@i17linuxx.ists.pwr.wroc.pl>,
* public domain.
This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

This package contains the scripts that are executed at start and shutdown of Debian systems.

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
This package contains the scripts that are executed at start and shutdown of Debian systems.
This package is built from the `sysvinit' source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

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1.806 teamd 1.27 :9.el7

1.807 trousers 0.3.14 :2.el7
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1.808 tuned 2.11.0 :5.el7_7.1

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All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* 
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------------------------------------------------------------------------

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California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

------------------------------------------------------------------------
This is the Debian prepackaged version of "unzip", Info-Zip's fast, portable, zipfile decompression utility.

This package is currently maintained by Santiago Vila <sanvila@debian.org> and built from sources obtained from:


The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution, plus several miscellaneous fixes as reflected in the Debian changelog.

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IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 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 Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td></td>
<td></td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

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

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<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
---layout--------

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD

---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 ftype [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:
<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsizesize</th>
<th>bsize</th>
<th>cpg</th>
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<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
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BSD disklabel command (m for help):
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1.815 util-linux 2.29.2-1+deb9u1

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package license

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type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}
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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |- The `\`/sys/license\` endpoint is used to view and update the license used in Vault.

---

# `/sys/license`
Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7

28779

**Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

```
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
<th align="left">Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
<td align="left"><code>200 application/json</code></td>
</tr>
</tbody>
</table>
```

### Sample Request

```
$ curl \
   --header "X-Vault-Token: ..." \ 
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

```
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
<th align="left">Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">:-----</td>
<td align="left">:---------------------</td>
<td align="left">:---------------------</td>
</tr>
</tbody>
</table>
```

---
| `PUT` | `/sys/license` | `204 (empty body)` |

### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG...
}
```

### Sample Request

```bash
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  http://127.0.0.1:8200/v1/sys/license
```

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`
    SHA      *string `json:"sha,omitempty"`
    Size     *int    `json:"size,omitempty"`
    URL      *string `json:"url,omitempty"`
}
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key,omitempty"`
    Name  *string `json:"name,omitempty"`
    URL   *string `json:"url,omitempty"`
    SPDXID         *string `json:"spdx_id,omitempty"`
    HTMLURL        *string `json:"html_url,omitempty"`
    Featured       *bool `json:"featured,omitempty"`
    Description    *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    licenses := make([]*License, 0)
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    var popularLicenses []License
    for _, l := range licenses {
        if l.Popular == true {
            popularLicenses = append(popularLicenses, l)
        }
    }

    return popularLicenses, resp, nil
}
return licenses, resp, nil
}

// Get extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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# This source code was written by the Go contributors.
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import ClusterAdapter from './cluster';

export default ClusterAdapter.extend({
  queryRecord() {
    return this._super(...arguments).then(resp => {
      resp.data.id = resp.data.license_id;
      return resp.data;
    });
  },

  createRecord(store, type, snapshot) {
    let id = snapshot.attr('licenseId');
    return this._super(...arguments).then(() => {
      return {
        id,
      }
    });
  }
});
updateRecord(store, type, snapshot) {
  let id = snapshot.attr('licenseId');
  return this._super(...arguments).then(() => {
    return {
      id,
    };
  });
},

pathForType() {
  return 'license';
},

urlForUpdateRecord() {
  return this.buildURL() + '/license';
},

import DS from 'ember-data';
const { attr } = DS;

/* sample response
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}*/

export default DS.Model.extend({
  expirationTime: attr('string'),
  features: attr('array'),
  licenseId: attr('string'),
  startTime: attr('string'),
text: attr('string'),
performanceStandbyCount: attr('number'),
});

<LicenseInfo
  @startTime={{model.startTime}}
  @expirationTime={{model.expirationTime}}
  @licenseId={{model.licenseId}}
  @features={{model.features}}
  @text={{model.text}}
  @saveModel={{action "saveModel"}}
  @model={{model}}
/>

<Pagination as |p|>
  <p.levelLeft>
    <h1 class="title is-3">License</h1>
  </p.levelLeft>
</Pagination>

<MessageError @model={{model}} />

{{#if isTemporary}}
  <section class="box is-sideless is-fullwidth">
    <AlertBanner
      @type="warning"
      @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal.
Please enter a valid license below."
      @class="license-warning"
      data-test-cluster-status
      data-test-warning-text
    />
    <span class="title is-5" data-test-temp-license>Temporary License</span>
    <form {{action "saveModel" text on="submit"}}>
      <div class="box is-shadowless is-fullwidth is-marginless">
        <div class="field">
          <label for="license-id" class="is-label">License</label>
          <div class="control">
            {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
          </div>
        </div>
        <div class="field">
          <div class="control">
            <button type="submit" class="button is-primary" data-test-save-button>Save</button>
          </div>
        </div>
      </div>
    </form>
  </section>
{{else}}
  <section class="box is-sideless is-fullwidth"/>
<span class="title is-5">Details</span>

{{#if showForm}}
<form {{action "saveModel" text on="submit"}}>
<div class="field">
<label for="license-id" class="is-label">License</label>
<div class="control">
{{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
</div>
</div>
<div class="field is-grouped">
<div class="control">
<button type="submit" class="button is-primary" data-test-save-button>Save</button>
</div>
<div class="control">
<button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
</div>
</div>
</form>
{{else}}
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
{{info-table-row label="License ID" value=licenseId}}
{{#info-table-row label="Valid from" value=startTime}}
{{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM DD, YYYY hh:mm:ss A'}}
{{/info-table-row}}
</div>
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
<div class="control">
<button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new license</button>
</div>
</div>
{{/if}}
{{/if}}

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
<span class="title is-5">Features</span>
<div class="field is-fullwidth is-shadowless is-paddingless is-marginless">
{{#each featuresInfo as |info|}}
{{#info-table-row label=info.name value=(if info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}
{{#if info.active}}
<ICon @size=28 @glyph="true" /> <span data-test-feature-status>Active {{#if info.count}}&mdash;{{info.count}} standby nodes allotted{{/if}}</span>
{{else}}
<ICon @size=28 @glyph="false" /> <span data-test-feature-status>Not Active</span>
{{/if}}

{{/if info.active}}
</div>
</section>
import Route from '@ember/routing/route';
import ClusterRoute from 'vault/mixins/cluster-route';
import { inject as service } from '@ember/service';

export default Route.extend(ClusterRoute, {
  version: service(),
  beforeModel() {
    if (this.version.isOSS) {
      this.transitionTo('vault.cluster');
    }
  },

  model() {
    return this.store.queryRecord('license', {});
  },

  actions: {
    doRefresh() {
      this.refresh();
    },
  },
});

import Controller from '@ember/controller';

export default Controller.extend({
  licenseSuccess() {
    this.send('doRefresh');
  },
  licenseError() {
    // eat the error (handled in MessageError component)
  },
  actions: {
    saveModel({ text }) {
      this.model.save({ text }).then(() => this.licenseSuccess(), () => this.licenseError());
    },
  },
});

import Component from '@ember/component';
import { allFeatures } from 'vault/helpers/all-features';
import { computed } from '@ember/object';

export default Component.extend({
  expirationTime: '',
  startTime: '',
});
import { addMinutes } from 'date-fns';
import { module, test } from 'qunit';
import { setupRenderingTest } from 'ember-qunit';
import { render } from '@ember/test-helpers';
import hbs from 'htmlbars-inline-precompile';
import sinon from 'sinon';
import { create } from 'ember-cli-page-object';
import license from '../../pages/components/license-info';
import { allFeatures } from 'vault/helpers/all-features';

const FEATURES = allFeatures();

const component = create(license);

module('Integration | Component | license info', function(hooks) {
  setupRenderingTest(hooks);

  const LICENSE_WARNING_TEXT = `Warning Your temporary license expires in 30 minutes and your vault will
  seal. Please enter a valid license below.`;

  test('it renders properly for temporary license', async function(assert) {
    const now = Date.now();
    this.set('licenseId', 'temporary');
    this.set('expirationTime', addMinutes(now, 30));
    this.set('startTime', now);
    this.set('features', ['HSM', 'Namespaces']);
    await render(hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}
  @startTime={{this.startTime}} @features={{this.features}}/>`);
    assert.equal(component.warning, LICENSE_WARNING_TEXT, 'it renders warning text including time left');
    assert.equal(component.hasSaveButton, true, 'it renders the save button');
    assert.equal(component.hasTextInput, true, 'it renders text input for new license');
    assert.equal(component.featureRows.length, FEATURES.length, 'it renders all of the features');
    assert.equal(component.featureRows[0].featureName, 'HSM', 'it renders HSM feature');
    assert.equal(component.featureRows[0].featureStatus, 'Active', 'it renders Active for HSM feature');
    assert.equal(
      component.featureRows[1].featureName, 'Performance Replication',
      'it renders Performance Replication feature name');
    assert.equal(  
      component.featureRows[1].featureStatus, 'Not Active',
      'it renders Not Active for Performance Replication');
  });
test('it renders feature status properly for features associated with license', async function(assert) {
    const now = Date.now();
    this.set('licenseId', 'temporary');
    this.set('expirationTime', addMinutes(now, 30));
    this.set('startTime', now);
    this.set('features', ['HSM', 'Namespaces']);
    await render(
        hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}
        @startTime={{this.startTime}} @features={{this.features}}/>`
    );
    assert.equal(component.featureRows.length, FEATURES.length, 'it renders all of the features');
    let activeFeatures = component.featureRows.filter(f => f.featureStatus === 'Active');
    assert.equal(activeFeatures.length, 2);
});

test('it renders properly for non-temporary license', async function(assert) {
    const now = Date.now();
    this.set('licenseId', 'test');
    this.set('expirationTime', addMinutes(now, 30));
    this.set('startTime', now);
    this.set('features', ['HSM', 'Namespaces']);
    await render(
        hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}
        @startTime={{this.startTime}} @features={{this.features}}/>`
    );
    assert.equal(component.featureRows.length, FEATURES.length, 'it renders all of the features');
    assert.equal(component.hasWarning, false, 'it does not have a warning');
    assert.equal(component.hasSaveButton, false, 'it does not render the save button');
    assert.equal(component.hasTextInput, false, 'it does not render the text input for new license');
    assert.equal(component.hasEnterButton, true, 'it renders the button to toggle license form');
});

test('it shows and hides license form when enter and cancel buttons are clicked', async function(assert) {
    const now = Date.now();
    this.set('licenseId', 'test');
    this.set('expirationTime', addMinutes(now, 30));
    this.set('startTime', now);
    this.set('features', ['HSM', 'Namespaces']);
    await render(
        hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}
        @startTime={{this.startTime}} @features={{this.features}}/>`
    );
    await component.enterButton();
    assert.equal(component.hasSaveButton, true, 'it does not render the save button');
    assert.equal(component.hasTextInput, true, 'it does not render the text input for new license');
    assert.equal(component.hasEnterButton, false, 'it renders the button to toggle license form');
    await component.cancelButton();
});
assert.equal(component.hasSaveButton, false, 'it does not render the save button');
assert.equal(component.hasTextInput, false, 'it does not render the text input for new license');
assert.equal(component.hasEnterButton, true, 'it renders the button to toggle license form');
});

test('it calls saveModel when save button is clicked', async function(assert) {
  const now = Date.now();
  this.set('licenseId', 'temporary');
  this.set('expirationTime', addMinutes(now, 30));
  this.set('startTime', now);
  this.set('features', ['HSM', 'Namespaces']);
  this.set('saveModel', sinon.spy());
  await render(  
    hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}  
      @startTime={{this.startTime}} @features={{this.features}} @saveModel={{this.saveModel}}/>`  
  );
  await component.text('ABCDE12345');
  await component.saveButton();
  assert.ok(this.get('saveModel').calledOnce);
});

test('it renders Performance Standby as inactive if count is 0', async function(assert) {
  const now = Date.now();
  this.set('licenseId', 'temporary');
  this.set('expirationTime', addMinutes(now, 30));
  this.set('startTime', now);
  this.set('model', { performanceStandbyCount: 0 });
  this.set('features', ['Performance Standby', 'Namespaces']);

  await render(  
    hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}  
      @startTime={{this.startTime}} @features={{this.features}} @model={{this.model}}/>`  
  );
  let row = component.featureRows.filterBy('featureName', 'Performance Standby')[0];
  assert.equal(row.featureStatus, 'Not Active', 'renders feature as inactive because when count is 0');
});

test('it renders Performance Standby as active and shows count', async function(assert) {
  const now = Date.now();
  this.set('licenseId', 'temporary');
  this.set('expirationTime', addMinutes(now, 30));
  this.set('startTime', now);
  this.set('model', { performanceStandbyCount: 4 });
  this.set('features', ['Performance Standby', 'Namespaces']);

  await render(  
    hbs`<LicenseInfo @licenseId={{this.licenseId}} @expirationTime={{this.expirationTime}}  
      @startTime={{this.startTime}} @features={{this.features}} @model={{this.model}}/>`  
  );
let row = component.featureRows.filterBy('featureName', 'Performance Standby')[0];
assert.equal(row.featureStatus, 'Active 4 standby nodes allotted', 'renders active and displays count');
});
});

1.820 vim-minimal 7.4.629 :6.el7

1.821 virt-what 1.18 :4.el7

1.821.1 Available under license:

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**1.824 x11-common 1:7.7+19**

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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.830 yum 3.4.3 :163.el7.centos
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.org 2017-01-24 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:
')
+        msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+        msg += '>>>>>>> %s:%s' % (_rid(self), data)
+        # --verbose mode enables this
+        self._vlogger.log(logging.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):
         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):
             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 += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s")
+                msg += _("If 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:
                 self._vlogger.warn("%s", msg)
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 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']:
++                 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):
++                     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

---
--- 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
@@ -33,6 +33,7 @@ import Errors
 import logginglevels
 import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

Open Source Used In Managed Services Accelerator (MSX) Platform Infrastructure 3.7
29072
def safe_iterparse(filename, logger=None):

1.831 yum-plugin-fastestmirror 1.1.31 :52.el7

1.832 yum-plugin-ovl 1.1.31 :52.el7

1.833 yum-utils 1.1.31 :52.el7

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# seth vidal 2005 (c) etc etc

#Read in the metadata of a series of repositories and check all the
# dependencies in all packages for resolution. Print out the list of
# packages with unresolved dependencies

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1.835 zlib 1.2.7 :18.el7
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1.836 zlib 1.2.11-r1

1.836.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

*/

1.837 zlib1g amd64:1:1.2.8.dfsg-5

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This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/
Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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1.838 zlib1g-dev 1:1.2.8.dfsg :2+b1

1.839 zookeeper 3.4.6
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