Open Source Used In Virtualized Infrastructure Manager 3.4.0

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1.720 ustr 1.0.4 :16.el7
   1.720.1 Available under license
1.721 vim 7.4.160 :6.el7_6
   1.721.1 Available under license
1.722 virt-manager 1.5.0 :1.el7
   1.722.1 Available under license
1.723 virt-what 1.18 :4.el7
   1.723.1 Available under license
1.724 wayland 1.15.0 :1.el7
   1.724.1 Available under license
1.725 web-assets 5 :1.el7ost
   1.725.1 Available under license
1.726 wget 1.14 :18.el7_6.1
   1.726.1 Available under license
1.727 which 2.20
   1.727.1 Available under license
1.728 xdg-utils 1.1.0 :0.17.20120809git.el7
   1.728.1 Available under license
1.729 xfsprogs 4.5.0 :19.el7_6
   1.729.1 Available under license
1.730 xinetd 2.3.15 :13.el7
   1.730.1 Available under license
1.731 xorg-x11-font-utils 7.5 :21.el7
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1.733 yajl 2.0.4 :4.el7
   1.733.1 Available under license
1.734 yum 3.4.3 :161.el7
   1.734.1 Available under license
1.735 yum-metadata-parser 1.1.4 :10.el7
   1.735.1 Available under license
1.736 yum-rhn-plugin 2.0.1 :10.el7
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1.737 yum-utils 1.1.31 :50.el7
  1.737.1 Available under license
1.738 zip 3.0 :11.el7
  1.738.1 Available under license
1.739 zlib 1.2.7 :18.el7
  1.739.1 Available under license

1.1 acl 2.2.51 :14.el7

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Tue, 26 Feb 2002 13:25:26 +1100

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# -*- coding: utf-8 -*-

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DOCUMENTATION = ''
---
module: cl_license
version_added: "2.1"
author: "Cumulus Networks (@CumulusNetworks)"
short_description: Install Cumulus Linux license
description:
  - Installs a Cumulus Linux license. The module reports no change of status
    when a license is installed.
    For more details go the Cumulus Linux License Documentation at
    U(http://docs.cumulusnetwork.com) and the Licensing KB Site at
    U(https://support.cumulusnetworks.com/hc/en-us/sections/200507688)
notes:
  - To activate a license for the FIRST time, the switchd service must be
    restarted. This action is disruptive. The license renewal process occurs
    via the Cumulus Networks Customer Portal -
    U(http://customers.cumulusnetworks.com).
  - A non-EULA license is REQUIRED for automation. Manually install the
    license on a test switch, using the command "cl-license -i <license_file>"
    to confirm the license is a Non-EULA license.
    See EXAMPLES, for the proper way to issue this notify action.
options:
  src:
    description:
      - The full path to the license. Can be local path or HTTP URL.
    required: true
  force:
    description:
      - Force installation of a license. Typically not needed.
      - It is recommended to manually run this command via the ansible
        command. A reload of switchd is not required. Running the force
option in a playbook will break the idempotent state machine of the module and cause the switchd notification to kick in all the time, causing a disruption.

choices:
- yes
- no

... EXAMPLES = ""
Example playbook using the cl_license module to manage licenses on Cumulus Linux

---
- hosts: all
  tasks:
    - name: install license using http url
      cl_license: src='http://10.1.1.1/license.txt'
      notify: restart switchd
    - name: Triggers switchd to be restarted right away, before play, or role is over. This is desired behaviour
      meta: flush_handlers
    - name: configure interfaces
      template: src=interfaces.j2 dest=/etc/network/interfaces
      notify: restart networking

handlers:
  - name: restart switchd
    service: name=switchd state=restarted
  - name: restart networking
    service: name=networking state=reloaded

----

# Force all switches to accept a new license. Typically not needed
ansible -m cl_license -a "src='http://10.1.1.1/new_lic' force=yes"  -u root all

----

...

RETURN = ""
changed:
  description: whether the interface was changed
  returned: changed
  type: bool
  sample: True
  msg:
description: human-readable report of success or failure
returned: always
type: string
sample: "interface bond0 config updated"

CL_LICENSE_PATH=/usr/cumulus/bin/cl-license

def install_license(module):
    # license is not installed, install it
    _url = module.params.get('src')
    (_rc, out, _err) = module.run_command("%s -i %s" % (CL_LICENSE_PATH, _url))
    if _rc > 0:
        module.fail_json(msg=_err)

def main():
    module = AnsibleModule(
        argument_spec=dict(
            src=dict(required=True, type='str'),
            force=dict(type='bool', choices=BOOLEANS, default=False)
        ),
    )

    # check if license is installed
    # if force is enabled then set return code to nonzero
    if module.params.get('force') is True:
        _rc = 10
    else:
        (_rc, out, _err) = module.run_command(CL_LICENSE_PATH)
        if _rc == 0:
            module.msg = "No change. License already installed"
            module.changed = False
        else:
            install_license(module)
            module.msg = "License installation completed"
            module.changed = True
    module.exit_json(changed=module.changed, msg=module.msg)

    # import module snippets
    from ansible.module_utils.basic import *
    # from ansible.module_utils.urls import *

    if __name__ == '__main__':
        main()
1.7 apr 1.4.8 :3.el7_4.1

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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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1.8 apr-util 1.5.2 :6.el7

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c ispell-local-pdict: "ispell-dict"
@c End:
#!/bin/sh
# -*- Mode: Shell-script -*-
# license.test --- test license functionality
#
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##
#
#
# # # # # # # # # # TEMPLATE FILE # # # # # # # # #
#echo creating ${testname}.tpl
cat > ${testname}.tpl << _EOF_
[= AutoGen5 template test =]
/*
 [= (license "$testname" "$testname" "Auto-Gen" "* " ) =] 
*/
_EOF_
# # # # # # # # # # LICENSE FILE # # # # # # # # #
echo creating ${testname}.lic
cat > ${testname}.lic << _EOF_
This is a bogus license granted by %2$s for %1$s.
Use it in good health
_EOF_
# # # # # # # # # # EXTEND FILES TO PAGESIZE # # # # # # # # #
cat > ${testname}-extend.c <<- _EOF_
#define HAVE_CONFIG_H 1
#include "config.h"
#include "compat/compat.h"

int main( int argc, char** argv ) {
    char* file;
    size_t sz;

FILE* fp;

file = *++argv;
fp = fopen(file, "a");
if (fp == NULL) return 1;
if (stat(file, &sb) != 0) return 1;
sz = 0x2000 - (sb.st_size & 0x1FFFUL);
while (sz > 0) { putc(\n', fp); sz--; }
fclose(fp);

file = *++argv;
fp = fopen(file, "r+");
if (fp == NULL) return 1;
if (stat(file, &sb) != 0) return 1;
seek(fp, offset, SEEK_END);
sz = 0x2000 - (sb.st_size & 0x1FFFUL);
while (sz > 0) { putc(\n', fp); sz--; }
puts(z_tail, fp);
fclose(fp);

return 0; }
_EOF_

Csrc=${testname}-extend
compile

./${testname}-extend ${testname}.lic ${testname}.tpl || 
failure "Could not extend license/template files to 8KB"
ls -l ${testname}.???

# # # # # # # # # # EXPECTED OUTPUT FILE # # # # # # # #
set -x
echo creating ${testname}.out
# this is the output we should expect to see
cat > ${testname}.out <<_EOF_
/*
*  This is a bogus license granted by Auto-Gen for ${testname}.
*  Use it in good health
*/
_EOF_

run_ag x -b ${testname} --no-def -T ${testname}.tpl || 
failure autogen failed
cmp -s ${testname}.test ${testname}.out || failure unexpected output

cleanup

## Local Variables:
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Version 3, 29 June 2007

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1.19 babeltrace 1.2.4 :5.el7cp

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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?

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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/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

    John

On May 9, 1:36pm, Chet Ramey wrote:

  Subject: ksh scripts
  From: Chet Ramey <chet@odin.ins.cwru.edu>
  Date: Tue, 9 May 1995 13:36:54 -0400
  To: john@armory.com
  Subject: ksh scripts
  Cc: chet@odin.ins.cwru.edu
  Reply-To: chet@po.cwru.edu
  Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
  Read-Receipt-To: chet@po.CWRU.Edu
  MIME-Version: 1.0
  Content-Type: text/plain; charset=us-ascii
  Status: OR

  Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
  the FSF.
I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

```
```

"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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 (8.6.10+cwru/CWRU-2.1-1ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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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 3a0982da308228d796df35f98d787c5c0b56.

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>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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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:stylesheet>
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1.24 binutils 2.27 :34.base.el7
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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.

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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 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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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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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]  

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
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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.

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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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
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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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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:

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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.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a 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
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object
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1.26 blosc 1.11.1 :3.el7ost

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ISO C9x compliant stdint.h for Microsoft Visual Studio
Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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FastLZ - lightning-fast lossless compression library

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LZ4 - Fast LZ compression algorithm

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- LZ4 homepage : http://fastcompression.blogspot.com/p/lz4.html
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For Blosc - A blocking, shuffling and lossless compression library

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Bitshuffle - Filter for improving compression of typed binary data

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1.27 boost 1.53.0 :27.el7

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

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[quickbook 1.5]
[copyright 2010-2001 Timequake man]
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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() << "</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);
    }
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
</pre>
<a href="#summary">Licence Summary</a>
<a href="#details">Licence Details</a>
while(i != j)
{
   // title:
   os << "   <A href="#input">Input Information</a>
   " "^
   "<a href="#input">Input Information</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 NOT 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>
" "<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 NOT 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>
"
"<a href="#depend">File Dependency Information</a>
""</pre>

//
// input Information:
//
if(m_scan_mode)
  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<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\[[[:blank:]*+(\d+)\]]]+$\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
<< "</P><br>
}

//
// 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 """"" << licenses.first[i->first].license_name """""<<"</H3>"""
;
// license text:
os """"" << licenses.first[i->first].license_text """""</BLOCKQUOTE>""
;
// Copyright holders:
os """"" << "<P>\n"""" << make_link_target(licenses.first[i->first].license_name) """""<<(see details)</a>""
; os """"" << "</P>"""" << licenses.first[i->first].license_name """""<<"</H3>\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>"""" << "<a name="""">"""
;
while(i != j)
{
// title:
os """"" << make_link_target(licenses.first[i->first].license_name) """""<<(see details)</a>""
; os """"" << "</a>"""" << licenses.first[i->first].license_name """""<<"</H3>\n"""
;
// license text:
os """"" << licenses.first[i->first].license_text """""</BLOCKQUOTE>""
;if(!m_bsl_summary_mode || (license_index >= 3))
{
// Copyright holders:
os """"" << "<P>\n"""" << licenses.first[i->first].license_name """""<<(see details)</a>""
; 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>"""" << licenses.first[i->first].license_name """""<<"</H3>\n"""
;
// Files using this license:
os """"" << "<P>\n"""" << licenses.first[i->first].license_text """""</BLOCKQUOTE>""
; 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">
    ++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>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>
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>
    ++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><BLOCKQUOTE><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">Files that can be automatically converted to the Boost Software
License</a></h2>
" << 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 << "[" << file_num << "] File: <tt>
" << split_path(m_boost_path, i->first)
 "<tt><br>


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">Authors we need for the BSL</a>\>\n"
"<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, "\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
// os << "\<H2\><a name="copyright">Copyright Holder Information</a>\>\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";
}

//
// output file dependency information:
//
// os << "\<H2\><a name="depend">File Dependency Information</a>\>\n"
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();
while(fi != efi)
{ std::get<1>(*fi).count() ?
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}

std::get<1>(*fi).count()?
// 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)
        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;
}
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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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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.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html 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 [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`], `__false_type` inherits from [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [@../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%" cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../../boost.png"></td>
</tr><table cellpadding="0" width="100%" cellpadding="0" width="100%">
<tr><td align="center"><a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="../../../../boost.png">Home</a></td>
<td align="center"><a href="../../../../people.html">People</a></td>
<td align="center"><a href="../../../../faq.html">FAQ</a></td>
</tr></table>
</body>
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 `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a><a href="/libs/mpl/doc/refmanual/bool.html" target="_top">false_type</a>`, and `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">true</a>` (provided `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">false</a>` is not `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">true</a>`).
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
Watanabe

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</p>
</div></td>
</tr></table>
<hr>
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//

#endif 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
, 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<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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//

BOOST_INTERPROCESS_DETAIL_MPL_HPP

#pragma once

#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;  }
   };

// 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

#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; 
  }; 
} 
} 
} 
#include <cstddef>
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_<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
#endif
template <typename R>
struct is Unary or binary function_impl<R (*)(...)>
{ static const bool value = true; };

// 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; };

#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
struct is_unary_or_binary_function_impl<R (__)stdcall*(T0)>
{ static const bool value = true; };
#endif

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; };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#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

#endif // _MANAGED

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

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
{  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
1.28 bridge-utils 1.5 :9.el7

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1.30 bzip2 1.0.6 :13.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.31 c-ares 1.10.0 :3.el7
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1.32 ca-certificates 2018.2.22 :70.0.el7_5

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1.34 celt051 0.5.1.3 :8.el7

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1.35 ceph 12.2.4 :42.el7

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>
template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() {
}

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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

Revision 2.0: Galois Field backend now links to GF-Complete

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1.47 cpio 2.11 :27.el7
1.47.1 Available under license:

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1.48 cracklib 2.9.0 :11.el7
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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
---------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =2Dmike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

-- Nathan
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing you all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.
Devin

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
>
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > 
> > I am sympathetic. Guys, what do you reckon?
> > 
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> > 
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> > 
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> > 
> > In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?
>-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

Below is original licensing discussion re changing to GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50) id l1eOcX-0004Qt-6L for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3f6d80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)
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^L

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library ‘Frob’ (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license=

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
> > >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
thus LGPL-2.1 enters to fill this void.
- mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...
> > >
> > > My apologies for not chiming in in anything resembling a reasonable timeframe.
> > >
> > > I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

On Sunday 05 October 2008, Alec Muffett wrote:
> > In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

Cracklib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helio=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Q2t6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC907132777D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd8071010010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.49 createrepo 0.9.9 :28.el7

1.49.1 Available under license :

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

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1.50 cri-tools 1.12.0

1.50.1 Available under license :

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1.55 cups 1.6.3 :35.el7

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<html>
<head>
<title>Software License Agreement</title>
<link rel="stylesheet" type="text/css" href="../cups-printable.css">
</head>
<body>

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1 Infinite Loop
```

Open Source Used In Virtualized Infrastructure Manager 3.4.0

923
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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 operating system on which the executable runs, unless that component itself accompanies the executable.

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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 convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The 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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"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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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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.

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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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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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/

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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
1.57 cyrus-sasl 2.1.26 :23.el7

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.61 dbus-python 1.1.1 :9.el7

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1.63 deltarpm 3.6 :3.el7
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1.64 desktop-file-utils 0.23 :1.el7

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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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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.

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Ty Coon, President of Vice

That's all there is to it!
1.66 device-mapper-persistent-data 0.7.3

:3.el7

1.66.1 Available under license:

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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 * Dibbler - a portable DHCPv6
 * authors: Tomasz Mrugalski <thomson@klub.com.pl>
 * changes: Paul Schauer <p.schauer@comcast.net>
 * released under GNU GPL v2 only licence
 *
 * $Id: daemon.h,v 1.3 2009-04-19 21:37:44 thomson Exp $
 *
 */

#ifndef DAEMON_H
#define DAEMON_H

#ifndef SIGTERM
#define SIGTERM 15
#endif

#ifndef SIGINT
#define SIGINT 2
#endif

int start(const char * pidfile, const char * workdir);
int stop(const char * pidfile);

int init(const char * pidfile, const char * workdir);
int getPID(char * pidfile);
int getServerPID();
int getClientPID();
int getRelayPID();
int die(const char * pidfile);

void logStart(const char * note, const char * logname, const char * logfile);
void logEnd();

#endif
noinst_LIBRARIES = libLowLevel.a

libLowLevel_a_CFLAGS = -std=c99
libLowLevel_a_CPPFLAGS = -I$(top_srcdir)/Misc

libLowLevel_a_SOURCES = daemon.cpp daemon.h lowlevel-bsd.c lowlevel-options-bsd.c malloc.h dibbler-client.cpp dibbler-server.cpp dibbler-relay.cpp

1.69 diffutils 3.3 :4.el7
1.69.1 Available under license :

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1.75 docker-ce 18.09.1 :3.el7

1.76 docker-ce-cli 18.09.1 :3.el7

1.76.1 Available under license:

    package formatter

    import (  
        "time"
        
        "github.com/docker/cli/internal/licenseutils"
        "github.com/docker/licensing/model"
    )

    const (  
        defaultSubscriptionsTableFormat = "table
            {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
        defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"  
    )
numHeader = "NUM"
ownerHeader = "OWNER"
licenseNameHeader = "NAME"
idHeader = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader = "START"
expiresHeader = "EXPIRES"
stateHeader = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) Format {
    switch source {
    case TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext subContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{ }
    licenseCtx.header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
    }
"ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresInHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
HeaderContext
trunc bool
  licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
return marshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}

func (c *licenseContext) Owner() string {
return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
return c.l.String()
}

func (c *licenseContext) Name() string {
return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}
func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

package formatter

import (}
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  Context
        expected string
    }{
        // Errors
        Context{Format: `{{InvalidFunction}}`},
        `Template parsing error: template: :1: function "InvalidFunction" not defined
        
        
        `,
        },
        Context{Format: `{{nil}}`},
        `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
        
        
        `,
        },
        // Table format
        Context{Format: NewSubscriptionsFormat("table", false)},
        `NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
        1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
        2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
        
        
        `,
        },
        Context{Format: NewSubscriptionsFormat("table", true)},
        `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
        2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
        
        
        `,
        },
        Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
        `OWNER
        owner1
        owner2
        
        
        `,
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := [][]licenseutils.LicenseDisplay{
        {Num: 1, 
            Owner: "owner1", 
            Subscription: model.Subscription{
                ID: "id1", 
                Name: "name1", 
                }}
    }

    // Raw Format
    { 
        Context{Format: NewSubscriptionsFormat("raw", false),},
        `license: id1 
        name: name1 
        owner: owner1 
        components: compstring 
        license: id2 
        name: name2 
        owner: owner2 
        components: compstring 
        },
    }

    // Custom Format
    { 
        Context{Format: NewSubscriptionsFormat("[.Owner]", false),},
        `owner1 
        owner2 
        `}
}
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 10,
  },
},
ComponentsString: "compstring",
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
  ID: "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
},
ComponentsString: "compstring",
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
      }
    }
  }
}
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
}
}
ComponentsString: "compstring",
}

Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
}
}
ComponentsString: "compstring",
}
}

expectedJSONs := []map[string]interface{}
{
 "Owner": "owner1",
 "ComponentsString": "compstring",
 "Expires": "2020-01-01T10:00:00Z",
 "DockerID": ",",
 "Eusa": nil,
 "ID": "id1",
 "Start": nil,
 "Name": "name1",
 "Num": float64(1),
 "PricingComponents": []interface{}
 map[string]interface{}
 "name": "nodes",
 "value": float64(10),
},
 "ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
},
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
License: Quantity: 1 Nodes Expiration date: 2018-03-18 Expired! You will no longer receive updates. Please renew at https://docker.com/licensing
Looking for existing licenses for ... 

<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td>2010-01-01 00:00:00 +0000 UTC</td>
<td></td>
</tr>
</tbody>
</table>

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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
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    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]
    return nil, errors.New("expected a single signing key")
}

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 nil, 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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1.82 e2fsprogs 1.42.9 :13.el7

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Theodore Ts'o
23-June-2007

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#
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#
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# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
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#
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): $(OBJSS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJSS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`
  `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

Open Source Used In Virtualized Infrastructure Manager 3.4.0
1396
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: tdbus/tdb.c
===================================================================
--- tdbus.orig/tdb.c
+++ tdbus/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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1.83 eapache/queue v1.1.0
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1.84 ebtables 2.0.10 :16.el7

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@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}

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 3 of the License, or (at
your option) any later version.

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General Public License for more details.

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 smallexample

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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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
************

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way
to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power
*************************************************

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.
Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
*************************************************************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how
Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use. In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can
only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people’s decisions have on their subsequent feelings, attitudes and predispositions. These changes in people’s ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in
delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion
========================

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so
they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, “Will I be permitted to use it?”, his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs
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The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box—that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as ‘+’ for addition and ‘−’ for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance(p0, p1)
struct point p0, p1;
{
    float xdist = p1.x - p0.x;
```
Here is the same program in executable form, on the computer I normally use:

```
1314258944  -232267772  -231844864  1634862
1411907592  -231844736  2159150   1420296208
-234880989  -234879837  -234879966  -232295424
1644167167  -3214848    1090581031  1962942495
572518958   -803143692  1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such
problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large
They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field—you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================
I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
=======================
I have shown how ownership of a program—the power to restrict changing or copying it—is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.
Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
****************************************

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
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There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.
When it is true at a given time that most people will work in a
certain field only for high pay, it need not remain true. The dynamic
of change can run in reverse, if society provides an impetus. If we
take away the possibility of great wealth, then after a while, when the
people have readjusted their attitudes, they will once again be eager
to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier
question when we realize that it's not a matter of paying them a
fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses.
Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software
development even if they cannot control the use of the software. In
1970, much of their software was free because they did not consider
restricting it. Today, their increasing willingness to join
consortiums shows their realization that owning the software is not
what is really important for them.

Universities conduct many programming projects. Today, they often
sell the results, but in the 1970s, they did not. Is there any doubt
that universities would develop free software if they were not allowed
to sell software? These projects could be supported by the same
government contracts and grants which now support proprietary software
development.

It is common today for university researchers to get grants to
develop a system, develop it nearly to the point of completion and call
that "finished", and then start companies where they really finish the
project and make it usable. Sometimes they declare the unfinished
version "free"; if they are thoroughly corrupt, they instead get an
exclusive license from the university. This is not a secret; it is
openly admitted by everyone concerned. Yet if the researchers were not
exposed to the temptation to do these things, they would still do their
research.

Programmers writing free software can make their living by selling
services related to the software. I have been hired to port the GNU C
compiler to new hardware, and to make user-interface extensions to GNU
Emacs. (I offer these improvements to the public once they are done.)
I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful,
growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
=================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.
I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of “software productivity” focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not
harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards—competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves—when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

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In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with
Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves—regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.
Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in `Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

-------- Footnotes --------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax
on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit’s "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the
right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (e.g., ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not necessary to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, e.g., "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of reftools etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (e.g., Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g., README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded
in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

```
lisp/version.el           # emacs-copyright
lib-src/ebrowse.c         # version
lib-src/etags.c           # print_version
lib-src/rcs2log           # Copyright
Cocoa/Emacs.base/Contents/Info.plist
```
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*_m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

etc/refcards/*.tex
also update the `defyear' macro for the latest year.

etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blander disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

etc/letter.pbm, letter.xpm
- trivial, no notice needed.

etc/FTP, ORDERS
- trivial (at time of writing), no license needed

etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don’t change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit, SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.
rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to
merit a copyright notice, but would presumably have the same one as 
lwlib-Xaw.c. We have been unable to find a true standalone version of 
LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and 
GPL notices to those files lacking either that were non-trivial, 
namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents 
our best understanding of the legal status of these files. We also 
clarified the notices in Makefile.in, which was originally the 
Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for 
notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as 
that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw 
files, which did not appear till Athena support was added in Lucid 
Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, 
but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 
or later. These are the versions that were first installed in Emacs. 
So in GNU Emacs, these two files have been under v2 or later since 
1994.

It seems that it was the intention of Lucid to use v1 or later 
(excepting the two files mentioned previously); so this is the license 
we have used when adding notices to code that did not have notices 
originally. Although we have the legal right to switch to v2 or later, 
rms prefers that we do not do so.

doc/*/doclicense.texi
    - leave the copyright alone in this imported file.

doc/*/*.texi - All manuals should be under GFDL (but see below), and 
    should include a copy of it, so that they can be distributed 
    separately. faq.texi has a different license, for some reason no-one 
    can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with 
FSF (reconfirmed by rms Aug 25 2008). Discussion with 
licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: 
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. 
Leave the copyrights alone. Leave the Eli Zaretskii copyright in
is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:
<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>
To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.
Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:
** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF, only tiny changes since installed.
aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember
anything about it. If I put it in without other comment, then probably
I wrote it myself."

Someone might want to tweak the copyright years (for dates before
2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some
files I thought might be considered non-trivial (if one includes
comment) in s/:
aix4-1.h hpux10.h irix6-5.h
sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of
system)

*** These are copyright issues that need not be fixed until after
Emacs 22 is released (though if they can be fixed before, that is
obviously good):

Is it OK to just `bzr remove` a file for legal reasons, or is
something more drastic needed? A removed file is still available from
the repository, if suitable options are applied. (This issue obviously
does not affect a release).
rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are
noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came
from.

c etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will
contact image authors in regards to future switch to v3.
etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."

Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html

Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

Gnulib:
  build-aux/compile
  build-aux/config.guess
  build-aux/config.sub
  build-aux/depcomp
  build-aux/missing
  build-aux/move-if-change
  build-aux/snippet/_Noreturn.h
  build-aux/snippet/argnonnull.h
  build-aux/snippet/c++defs.h
  build-aux/snippet/warn-on-use.h
  doc/man/texinfo.tex
  lib/*.[ch]
  lib/gnulib.mk
  src/gmalloc.c
  src/termcap.c
  src/tparam.c

Note _not_ included in the above are src/regex.{c,h} (rms: "That
forked version is only in Emacs, so definitely relicense that."), and
oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so
definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be
and were updated, ditto the oldXMenu files with FSF copyright, and
msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes
ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later.
(rms: "We may as well leave this alone, since we are never going to
change it much.")

4. There are some files where the FSF holds no copyright. These were
left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
   (above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map     >= v1
leim/MISC-DIC/ziranma.cin    >= v1
leim/SKK-DIC/SKK-JISYO.L     >= v2
leim/SKK-DIC/README          >= v2
leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain
under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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"Update the copyright notice in current buffer."
:group 'tools)

(defcustom copyright-limit 2000
"Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
:type '(choice (integer :tag "Limit")
(const :tag "No limit")))

(defcustom copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:type 'boolean
:version "23.1")

(defcustom copyright-regexp
"\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|
\|\[Cc\]opyright\s *:?\s *\)
\s *\(?:[^0-9\n]*\s *\)?\|
\([1-9]\([0-9, ';/*%#\n\t]\|\s<\|\s>\)*\[0-9]+\)"
"What your copyright notice looks like.
The second \( \) construct must match the years."
:type 'regexp)

(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp
"\(\s *\)\([1-9]\([0-9, ';/*%#\n\t]\|\s<\|\s>\)*\[0-9]+\)"
"Match additional copyright notice years.
The second \( \) construct must match the years."
:type 'regexp)
(defcustom copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range.
  If you use ranges, you should add an explanatory note in a README file.
  The function `copyright-fix-years' respects this variable."
  :group 'copyright
  :type 'boolean
  :version "24.1")

(autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defcustom copyright-query 'function
  "If non-nil, ask user before changing copyright.
  When this is `function', only ask when called non-interactively."
  :group 'copyright
  :type '(choice (const :tag "Do not ask")
             (const :tag "Ask unless interactive" function)
             (other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
  "String representing the current version of the GPL or nil.")

(defvar copyright-update t
  "The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "\%Y")
  "String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
  (and copyright-limit
   (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
  (point-max)
  (point-min)))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
      (< (point) (- (point-max) copyright-limit))
      (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat \("\)\(\[ \t\]*\n\)?.*\(?:
      copyright-regexp "\(\)"
      copyright-names-regexp "\(\)"
    )
    (copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
  If the years continue onto multiple lines that are marked as comments,
  skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " \") (eolp))
    comment-start-skip
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0))))
    (looking-at-p copyright-years-regexp))
  (forward-line 1)
  (re-search-forward comment-start-skip)
  ;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
(re-search-forward (format "\(\%(s)\)" copyright-years-regexp)))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
              (substring copyright-current-year -2))
    (if (or noquery
             (save-window-excursion
              (switch-to-buffer (current-buffer))
              ;; Fixes some point-moving oddness (bug#2209).
              (save-excursion
               (y-or-n-p (if replace
                            (concat "Replace copyright year(s) by 
                                    copyright-current-year 
                                    ? ")
                          (concat "Add " copyright-current-year 
                                  " to copyright? ")"))))))
      (if replace
          (replace-match copyright-current-year t t nil 3)
          (let ((size (save-excursion (skip-chars-backward "0-9"))))
            (if (and (eq (% (- (string-to-number copyright-current-year)
                          (string-to-number (buffer-substring
                                              (+ (point) size)
                                              (point))))
                          100)
                    1)
                (or (eq (char-after (+ (point) size -1)) ?-)
                    (eq (char-after (+ (point) size -2)) ?-)))
              ;; This is a range so just replace the end part.
              (delete-char size)
              ;; Insert a comma with the preferred number of spaces.
              (insert (save-excursion
                        (if (re-search-backward "[0-9]\([-.*\[0-9]\])"
                            (line-beginning-position) t)
                            (match-string 1)
                            ", ")
                          ;; If people use the '91 '92 '93 scheme, do that as well.
                          (if (eq (char-after (+ (point) size -3)) ?)
                              (insert ?))
                          ;; Finally insert the new year.
                          (insert (substring copyright-current-year size)))))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
              (substring copyright-current-year -2))
    (if (or noquery
             (save-window-excursion
              (switch-to-buffer (current-buffer))
              ;; Fixes some point-moving oddness (bug#2209).
              (save-excursion
               (y-or-n-p (if replace
                            (concat "Replace copyright year(s) by 
                                    copyright-current-year 
                                    ? ")
                          (concat "Add " copyright-current-year 
                                  " to copyright? ")"))))))
      (if replace
          (replace-match copyright-current-year t t nil 3)
          (let ((size (save-excursion (skip-chars-backward "0-9"))))
            (if (and (eq (% (- (string-to-number copyright-current-year)
                          (string-to-number (buffer-substring
                                              (+ (point) size)
                                              (point))))
                          100)
                    1)
                (or (eq (char-after (+ (point) size -1)) ?-)
                    (eq (char-after (+ (point) size -2)) ?-)))
              ;; This is a range so just replace the end part.
              (delete-char size)
              ;; Insert a comma with the preferred number of spaces.
              (insert (save-excursion
                        (if (re-search-backward "[0-9]\([-.*\[0-9]\])"
                            (line-beginning-position) t)
                            (match-string 1)
                            ", ")
                          ;; If people use the '91 '92 '93 scheme, do that as well.
                          (if (eq (char-after (+ (point) size -3)) ?)
                              (insert ?))
                          ;; Finally insert the new year.
                          (insert (substring copyright-current-year size)))))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year. With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively."

(interactive "*Pnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
                     (and (eq copyright-query 'function) interactivep)))
       (save-excursion
        ;; If names-regexp doesn't match, we should not mess with
        ;; the years_or_ the GPL version.
        ;; TODO there may be multiple copyrights we should update.
        (when (copyright-find-copyright)
          (copyright-update-year arg noquery)
          (goto-char (copyright-start-point))
          (and copyright-current-gpl-version
           ;; Match the GPL version comment in .el files.
           ;; This is sensitive to line-breaks. :(.
           (copyright-re-search
            "the Free Software Foundation\[;\n\(\[0-9\]+\)\(?: of the License\)?, or\[ ;
\(\[0-9\]+\) any later version"
            (copyright-limit) t)
           ;; Don't update if the file is already using a more recent
           ;; version than the "current" one.
           (< (string-to-number (match-string 1))
            (string-to-number copyright-current-gpl-version))
          (or noquery
            (save-match-data
             (goto-char (match-end 1))
             (save-window-excursion
              (switch-to-buffer (current-buffer))
              (y-or-n-p
               (format "Replace GPL version %s with version %s? "
                  (match-string-no-properties 1)
                  copyright-current-gpl-version))))))
          (replace-match copyright-current-gpl-version t t nil 1)))))
  (set (make-local-variable 'copyright-update) nil)))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;;##autoload
(defun copyright-fix-years ()
  ;;
"Convert 2 digit years to 4 digit years. Uses heuristic: year >= 50 means 19xx, < 50 means 20xx. If `copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range."

(interactive)

;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
 (let ((s (match-beginning 3))
   (p (make-marker))
   ;; Not line-beg-pos, so we don't mess up leading whitespace.
   (copystart (match-beginning 0))
   e last sep year prev-year first-year range-start range-end)
   ;; In case years are continued over multiple, commented lines.
   (goto-char (match-end 1))
   (copyright-find-end)
   (setq e (copy-marker (1+ (match-end 3))))
   (goto-char s)
   (while (re-search-forward "[0-9]+" e t)
     (set-marker p (point))
     (goto-char (match-beginning 0))
     (setq year (string-to-number (match-string 0)))
     (and (setq sep (char-before))
       (/= (char-syntax sep) ?\s)
       (/= sep ?-)
       (insert " "))
     (when (< year 100)
       (insert (if (>= year 50) "19" "20"))
       (setq year (+ year (if (>= year 50) 1900 2000))))
     (goto-char p)
     (when copyright-year-ranges
       ;; If the previous thing was a range, don't try to tack more on.
       ;; TODO should merge into existing range if possible.
       (if (eq sep ?-)
         (setq prev-year nil
               year nil)
         (if (and prev-year (= year (1+ prev-year)))
           (setq range-end (point))
         (when (and first-year prev-year
                       (> prev-year first-year))
           (goto-char range-end)
           (delete-region range-start range-end)
           (insert (format "-%d" prev-year))
           (goto-char p))
         (setq first-year year
               range-start (point)))))
     (setq prev-year year
       last p)))
(when last
  (when (and copyright-year-ranges
    first-year prev-year
    (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year)))
  (goto-char last)
  ;; Don't mess up whitespace after the years.
  (skip-chars-backward " \")
  (save-restriction
    (narrow-to-region copystart (point))
    ;; This is clearly wrong, eg what about comment markers?
    ;; (let ((fill-prefix " "))
    ;;   TODO do not break copyright owner over lines.
    ;; (fill-region (point-min) (point-max)))
  (set-marker e nil)
  (set-marker p nil))
;; Simply reformating the years is not copyrightable, so it does
;; not seem right to call this. Also it messes with ranges.
;; (copyright-update nil t)
  (message "No copyright message"))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
comment-start
"Copyright (C) \`(format-time-string "\%Y") by "
(or (getenv "ORGANIZATION")
  str)
'(if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
  comment-end \n)

;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: 
MFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
      (enable-local-eval nil))
      (find-file file))
  )
)

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(let ((inhibit-read-only t))
  (if fix
      (copyright-fix-years)
      (copyright-update)))
  (save-buffer)
  (kill-buffer (current-buffer)))

(provide 'copyright)

;;; For the copyright sign:
;;; Local Variables:
;;; coding: utf-8
;;; End:

;;; copyright.el ends here

;ELC
;;; Compiled by gm@skiddaw on Fri Mar 8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
     (< (aref emacs-version (1- (length emacs-version))) ?A)
     (string-lessp emacs-version "23")
     (error "`%s' was compiled for Emacs 23 or later" #$))

(byte-code
 "\300\301\302\303\304\305\%\210\306\307\310\311\304\301\312\313&\210\306\314\302\315\304\301\312\316\317\320&\210\306\321\322\323\304\301\312\324&\210\306\325\326\327\304\301\312\324&\210\306\330\331\332\304\301\312\324&\210\306\333\334\304\301\312\316\317\335&\210\306\336\337\340\304\301\312\341&\207" [custom-declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean :version "23.1" copyright-regexp "\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\)\s *\(?:[^0-9
\s<\s>\)*\[0-9\]+\)" "What your copyright notice looks like.\nThe second \( \) construct must match the years." regexp copyright-names-regexp "\(\s *\)\(\[1-9]\(\[-0-9, ';/*%#
\s<\s>\)*\[0-9\]+\)\)" "Match additional copyright notice years.\nThe second \( \) construct must match the years." copyright-year-ranges "Non-nil if individual consecutive years should be replaced with a range.\nFor example: 2005, 2006, 2007, 2008 might be
replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function `copyright-fix-years' respects this variable. "24.1" copyright-query function. If non-nil, ask user before changing copyright. When this is 'function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive") (other :tag "Ask") t) [10]

#@60 String representing the current version of the GPL or nil.
(defconstant copyright-current-gpl-version "3" (#$ . 2656))
#@75 The function 'copyright-update' sets this to nil after updating a buffer.
(defvar copyright-update t (#$ . 2778))
#@39 String representing the current year.
(defvar copyright-current-year (format-time-string "%Y") (#$ . 2898))
(defalias 'copyright-limit #\[nil "Z:\202\\207\207" \[copyright-limit copyright-at-end-flag\] 2])
(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
#@69 Re-search forward or backward depending on 'copyright-at-end-flag'.
(defalias 'copyright-re-search #\[(regexp &optional bound noerror count) "\203\305\t\n\f$\207\306\t\n\f$\207" \[copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward\] 5 (#$ . 3189))
#@70 Return point-min or point-max, depending on 'copyright-at-end-flag'.
(defalias 'copyright-start-point #\[nil "20\303d\207e\207" \[copyright-at-end-flag\] 1 (#$ . 3479))
#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "20\305\203\d\207\207\202\207" \[copyright-limit copyright-at-end-flag\] 3 (#$ . 3653))
#@218 Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses.
(defalias 'copyright-find-copyright #\[nil =~\210\300 b\210\301\302\303\217\207" \[copyright-start-point err (byte-code "\304\305\306\t\307\260\n\205\203`\n\207\202\n\f\310\#\207" \[copyright-regexp copyright-names-regexp copyright-limit copyright-at-end-flag copyright-re-search "(\" (\"\n[ ]*\n\).*\(?:" \)\(\[ \)
\)\(?(: ?)\(" \)\t\) 6 ((error (message "Can't update copyright: %s" err) nil)) 3 (#$ . 3862))
#@175 Possibly adjust the search performed by 'copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skip to the end of all the years.
(defalias 'copyright-find-end #\[nil "\212g\305=\2053\u210\307\310w\210l\2053\2053\311\312\216\303\y\210\307\310!\311\225\312Z\311\225\O\230?\205\247\t\204>\315\316\216\317\p\210\212\320\203\353\321\322\Q\2029\323\324\Q\4\205\247\203\332\325\326\211\314\311\%\207\212\327\314\x\330\330\n\" \210\312\216\346\350\203\332\v\333\f\334\=\204x\332 \v\313\f\334\=\203\335\f\210\202\241\212\236\337\340 \326\#\210\217\341\305\202\220\342\e\210\332\v\333\f\334\=\203\241\344\c\210\314\0\207") [copyright-current-year noquery #\[1=#\:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -nil current-window-configuration (set-window-configuration #\[1=#\) switch-to-buffer y-or-n-p "Replace copyright year(s) by " ? " Add " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-search-backward "[0-9]\( *, *\)[0-9]" line-beginning-position match-string ",", " -3 39] 6))
#@369 Update copyright notice to indicate the current year. With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copyright permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
(defalias 'copyright-update #[(&optional arg interactivep) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-toolarge-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end

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Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.

@122 (defalias 'copyright-update-directory #\[(directory match &optional fix) "\306\307\310\211\205E\311\204=\312\313\210\2025\317\210)\320\210\321p!\210\204 #\$ . 9815) "DDirectory: 
MFilenames matching (regexp): " #. 9815) "DDirectory: 
MFilenames matching (regexp): " ])

(provide 'copyright)

1.88 erlang-sd_notify 1.0 :2.el7ost
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1.89 etcd 3.3.13
1.89.1 Available under license:
procf provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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Protocol Buffers for Go with Gadgets

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PP
\fB\-from\-key\P [=false]
  revoke a permission of keys that are greater than or equal to the given key using byte compare

PP
\fB\-prefix\P [=false]
  revoke a prefix permission

.SH OPTIONS INHERITED FROM PARENT COMMANDS
```
verify certificates of TLS-enabled secure servers using this CA bundle

identify secure client using this TLS certificate file

timeout for short running command (excluding dial timeout)

enable client-side debug logging

dial timeout for client connections

gRPC endpoints

print byte strings as hex encoded strings

skip server certificate verification

disable transport security for client connections

identify secure client using this TLS key file

username[:password] for authentication (prompt if password is not supplied)

set the output format (fields, json, protobuf, simple, table)
etcdctl3\-role\-grant\-permission - Grants a key to a role

Grants a key to a role

grant a permission of keys that are greater than or equal to the given key using byte compare

grant a prefix permission

verify certificates of TLS\-enabled secure servers using this CA bundle

identify secure client using this TLS certificate file
\texttt{-\-command-timeout=5s}
\hspace{1em} timeout for short running command (excluding dial timeout)

\texttt{-\-debug=[false]}
\hspace{1em} enable client-side debug logging

\texttt{-\-dial-timeout=2s}
\hspace{1em} dial timeout for client connections

\texttt{-\-endpoints=[127.0.0.1:2379]}
\hspace{1em} gRPC endpoints

\texttt{-\-hex=[false]}
\hspace{1em} print byte strings as hex encoded strings

\texttt{-\-insecure-skip-tls-verify=[false]}
\hspace{1em} skip server certificate verification

\texttt{-\-insecure-transport=[true]}
\hspace{1em} disable transport security for client connections

\texttt{-\-key=""}
\hspace{1em} identify secure client using this TLS key file

\texttt{-\-user=""}
\hspace{1em} username[:password] for authentication (prompt if password is not supplied)

\texttt{-w, -write-out="simple"}
\hspace{1em} set the output format (fields, json, protobuf, simple, table)

\textbf{SEE ALSO}
\texttt{etcdctl3\-role(1)}

\textbf{HISTORY}
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=================

This code has the following dependencies above and beyond the Python standard library:

httplib2 - MIT License
# Contribsors to oauth2client

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* [Jon Wayne Parrott](https://github.com/jonparrott)
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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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 Lesser General
Public License instead of this License.

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Previously, the copyright and/or licensing status of the Python
Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The
original intention of Andrew M. Kuchling and other contributors has
been to dedicate PyCrypto to the public domain, but that intention was
not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.

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Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can...
find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk

(www.amk.ca)

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> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
> 
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> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
> 
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domain is not available, everyone
is granted a worldwide, perpetual,
royalty-free, non-exclusive license
to exercise all rights associated with
the contents of this file for
any purpose whatsoever. No
rights are reserved.

Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

> Regards,

> Mark.

> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

>> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Subject: PyCrypto license clarification
>> To: "Mark Moraes" <moraes@computer.org>
>> Date: Saturday, April 18, 2009, 9:14 AM
>> Hi Mark,

>> I am the new maintainer of the Python Cryptography Toolkit,
>> and I am
>> working on a new release at http://www.pycrypto.org/.

>> People often ask me what license PyCrypto is covered by, if
>> it's
>> GPL-compatible, etc. Right now, I'm not really sure
>> what to tell them.
>> The text in the current LICENSE file (quoted below) is not
>> entirely clear
>> on the point of whether distributing modified versions is
>> allowed. (It
>> says "distribute and use", but not "modify".)

>> Distribute and use freely; there are

---

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1674
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(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)
Distribute and use freely; there are no restrictions on further
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country of residence. This software is provided "as is" without
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or implied. Use at your own risk or not at all.

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their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto,
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extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so125233rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=dlitz.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
 :date:message-id:subject:from:to:content-type;
b=Wy9U32WCUiksRqkhHwaOZyJQBUs4Yvt5mI20U6mlg==;
b=MjliJ2laIXYiJKe2zNJW3riU9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
B56VQuGVEyZBbNscytvGq6DhQiQouCLZymSViobmuDmKn5DtkOxKopx0C6xQmHYaas
L9/A6D3f66kKrN6gX9mc0GPcZTvVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=dlitz.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:to:
 :content-type;
b=Vm7CS6dEFJKay1AJyWZkZmJA1nTcwCG6akBHAEXLd8ht6PFCmslfizZG8hJCIVJ8
vljpcT+G6cywV7Bwv1pyGX7ECYzr0+v+hVgdpACGr24zikhHpSSd5GFogzXaLVvGVH8p
bqSHpWKtfEP4gAQikiNeq1GNrR2j8U3fRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> >
> > I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> >
> > People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").
> >
> > ==============================================================
> > Distribute and use freely; there are no restrictions on further
> > dissemination and usage except those imposed by the laws of your
> > country of residence. This software is provided "as is" without
> > warranty of fitness for use or suitability for any purpose, express
> > or implied. Use at your own risk or not at all.
> > ==============================================================
> >
> > Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).
> >
> > --amk (www.amk.ca)
> >
> > For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.
> > Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting_ Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.
> >
> > I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto,
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response. Please direct any further correspondence to jeethu@jeethurao.com

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Dwayne C. Litzenberger <dlitz@dlitz.net>
ys "distribute and use", but not "modify".)

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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.
On November 23, 2008, you wrote:

>Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
>working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
>your behalf, dedicate to the public domain all your contributions to
>PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
>extent that dedication to the public domain is not available, everyone
>is granted a worldwide, perpetual, royalty-free, non-exclusive license
>to exercise all rights associated with the contents of this file for
>any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
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--amk

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
  for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:38 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
  by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
  for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I’m glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ceG+JdZwNvPJRTsa6rhY6+MHLfHf6agk
evJnJlSjQAcvVH1zVlVeR5lXgvDUMakZjU4SOV7MqkhssKA9lIet7PaD9vSYgn3ra5
gElw12DQDoOy5GExXMm74gqrbb1PCCbCRmpaYN0+DZohwHkeFbjwDRA3wlOTrH7
SK4w9VBIfY=3D
=3DQduY
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
> >
> >
> >
> >
> >===================================================================
> > The contents of this file are dedicated to the public domain. To
> > the
> > extent that dedication to the public domain is not available,
> > everyone
> > is granted a worldwide, perpetual, royalty-free, non-exclusive
> > license
> > to exercise all rights associated with the contents of this file
> > for
> > any purpose whatsoever. No rights are reserved.
> >
> >===================================================================
>

In case I haven’t replied to this yet: Yes, this is fine with me.

robey
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. It says "distribute and use", but not "modify".

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your
This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk  (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. On your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Yes, that’s fine. Good luck with the new release!

-p

Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>
>That's great!
>
>> I understand that you have made contributions to PyCrypto, under nickname
>> "z3p" and/or other names. May I, on your behalf, dedicate to the public
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>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>
>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=floated
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

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===================================================================

Regards,
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMTP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smt6.versatel.nl; client-ip=62.58.50.97
Received: from smt6.versatel.nl (smt6.versatel.nl [62.58.50.97])
by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
 (envelope-sender <joris@bontje.nl>)
 by 10.170.1.96 (qmail-ldap-1.03) with SMTP
 for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090509090825.gs11ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going. I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
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> 
> ==============================================================
> Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
> ==============================================================
> 
> Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting_ Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

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```

Regards,

-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
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> Joris
>
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>
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> >>
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> >> says "distribute and use", but not "modify".)
> >>
> >>==================================================================


Open Source Used In Virtualized Infrastructure Manager 3.4.0
1699
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Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
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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<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
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<td>PSF</td>
<td>no</td>
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<tr>
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<td>2.0+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
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<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2</td>
<td>2.1.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
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<td>2.1.1</td>
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<td>PSF</td>
<td>yes</td>
</tr>
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<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

PSF LICENSE AGREEMENT FOR PYTHON 2.2.3

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 2.2.3 software in source or binary form and its associated documentation.

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
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client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=pass; envelope-from=dlitz@dlitz.net;
Open Source Used In Virtualized Infrastructure Manager 3.4.0

1707

---BEGIN PGP SIGNED MESSAGE---

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:
#   dlitz@dlitz.net
# requested that this message be sent to:
#   crypt@bis.doc.gov
#   enc@nsa.gov
#   web_site@bis.doc.gov
#   pycrypto@lists.dlitz.net
#   PYTHON-CRYPTO@NIC.SURFNET.NL
#   dlitz@dlitz.net
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002
NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1F88 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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XYhY+HbRjsD741/GSpO9IIN5In0UgsbfOlLIndnNtAvWf4aPyh5KCN7ho+/BC0v/
W/pqS1pkwmbhPlHoOltTkNc0q0KLASHxqMGJNhO8AkryZ0yJksb0HsA==
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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.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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   b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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   d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain
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/**
 * 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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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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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
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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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use both them and the Library together in an executable that you
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^L
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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 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 Criddig (Regis.Criddlig@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(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssld.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.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
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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, "\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 */
```c
#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)))

#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

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

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to 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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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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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 @dfn{Lesser} General Public License because it does @emph{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.

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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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Version 3.1, 31 March 2009

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<table>
<thead>
<tr>
<th>Program</th>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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/* Definitions for BSD assembler syntax for Intel 386
(actually AT&T syntax for insns and operands,
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, "$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\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\n", (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\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), "$t.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
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
@set seealso gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@uref{http://fsf.org/}

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@end ignore
@c Special handling for inclusion in the install manual.
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@end enumerate

@end enumerate

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@smallexample
@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 smallexample

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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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@end c man

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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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 (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
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# 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.
#
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',
  'decomp',
  'install-sh',
  'libtool.m4',
  'ltmain.sh',
  'ltoptions.m4',
  'ltSugar.m4',
  'ltversion.m4',
  'lt~obsolete.m4',
  'missing',
  'mkdep',
  'mkenstalldirs',
  '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 (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'  
    '\[(Cc)opyright\s+\]'  
    '\[(Cc)opyright\s+%]'  
    '\[(Cc)opyright\s+&copy]'  
    '\[(Cc)opyright\s+@copyright\]'  
    '@set\s+copyright\{\}'  
    '@\s+copyright\{[w-]+\}')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?:+\s+ranges +\.'?)'  
'[@\s+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]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
selother_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)
self.comment_re = re.compile('#*|[*]*|;*|%*|//*|@c |dnl ')  
selhellers = { '@copying': '@copying'  
    selholder_prefixes = set()  

# True to 'quilt add' files before changing them.
sel.use_quilt = False  

# If set, force all notices to include this year.
sel.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
        else:
            raise self.BadYear (string)
    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
            return (False, orig_line, next_line)
    return (True, orig_line, next_line)
# 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)]
    + ' ' + 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
                    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\n'
% 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',

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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 (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('%s
' % 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
        else:
            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 ([}
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            # Old news won't be updated.
            # Maintained by the translation project.
            # Automatically-generated.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            'ONEWS',
        )

        def skip_file (self, dir, filename):

            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.
            # Automatically-generated.
            '.po',
            '.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.
        ])

Open Source Used In Virtualized Infrastructure Manager 3.4.0
2098
'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')
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 ('libdecmumber')
        # 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('lto-plugin')

# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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* m4/ax_func_which_gethostbyname_r.m4

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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() {

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 (haveValidTag) {
                    StringBuffer result = new StringBuffer();
                    result.append("<dl>");
                    for (int i = 0; i < tags.length; i++) {
                        return true;
                    }
                }
            }
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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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>
 *<code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>
 * @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
 * @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>.
 * @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() + "+ getTime() + "+ getActions

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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exception statement from your version. */

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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@item
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to copy the Corresponding Source from a network server at no charge.

@item
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received the object code with such an offer, in accord with subsection
6b.
@item
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@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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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
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.

@smallexample
@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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the Free Software Foundation, either version 3 of the License, or (at
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@end smallexample

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 small example

The hypothetical commands @samp{show w} and @samp{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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@end c man

#!/usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
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This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
# Prune this directory from our search list.
dirs.remove(dirname)
for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
        pass
    else:
        result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnu\lib's update-copyright script for that.
    ""
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK\ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('
'):
line = line[:-1]
if line.endswith(warning_string):
    filename = line[:-warning_len]
    if may_have_copyright_notice(filename):
        print line
else:
    # Unrecognized file format. !?!
    print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):    
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)
# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (
    "COPYING", "COPYINGLIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",}
if __name__ == '__main__':
    main()
BEGIN{  
    FS="\\n";
    print "/* Do not modify this file!! \
    -*- buffer-read-only: t -*- vi \
    :set ro:";
    print " It is created automatically by copying.awk:";
    print " Modify copying.awk instead. <= /\";
    print " ";
    print "#include "defs.h""
    print "#include "command.h"
    print "#include "gdbcmd.h"
    print "static void show_copying_command (char *, int);"
    print "static void show_warranty_command (char *, int);"
    print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty)";
print "{";
}
NR == 1;/^[ ]*15\.. Disclaimer of Warranty\[ ]*$/{
if ($0 ~ //)
{
    printf " printf_filtered (\n\n);\n";
}
else if ($0 !~ /^[ ]*15\.. Disclaimer of Warranty\[ ]*$/{
{
    printf " printf_filtered (\"");
    for (i = 1; i < NF; i++)
printf "\", $i;
    printf "\n\"", $NF;
}
}/^[ ]*15\.. Disclaimer of Warranty\[ ]*$/{
print "}";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "{";
}
}/^[ ]*15\.. Disclaimer of Warranty\[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf " printf_filtered (\"");
    for (i = 1; i < NF; i++)
printf "\", $i;
    printf "\n\"", $NF;
}
} END{
print "}";
print "";
print "void"
print ".initialize_copying (void)";
print "{";
print " add_cmd ("copying", no_set_class, show_copying_command,\";
print "_("Conditions for redistributing copies of GDB\"),\";
print " &showlist)\";
print " add_cmd ("warranty", no_set_class, show_warranty_command,\";
print "_("Various kinds of warranty you do not have\")\");
print " &showlist)\";
print "";
print "/\ For old-timers, allow \"info copying\", etc. */";
print " add_info ("copying", show_copying_command, ");
print " _("Conditions for redistributing copies of GDB.");"
print " add_info ("warranty", show_warranty_command,";
print " _("Various kinds of warranty you do not have."));
print ");"
}

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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.

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

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

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

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

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.

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.

@item
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:

@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.
@item 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.

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.

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
@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
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.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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

```
---
    one line to give the library's name and an idea of what it does.
---
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You should also get your employer (if you work as a programmer) or your
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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.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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.

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

b) Give prominent notice with the combined library of the fact
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**1.115 git 1.8.3.1 :20.el7**

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Version 2, June 1991

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1.119 github.com/pmezard/go-difflib v1.0.0

:1.0

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Ty Coon, President of Vice

That's all there is to it!
PCRE LICENCE

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End

1.121 glibc 2.17 :260.el7_6.6
1.121.1 Available under license :

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
  sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
  sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socketaddr.h: Move to ...
  sysdeps/unix/bsd/bits/socketaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxt hdr.c: Move to ...
  sysdeps/unix/bsd/cmsg_nxt hdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
  sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
  sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
  sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
  sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
  sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
  sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
  sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
  sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
  sysdeps/unix/bsd/waitpid.c: ... here.
  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_nxt hdr.c: Move to ...
  sysdeps/unix/bsd/cmsg_nxt hdr.c: ... here.
  sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
  sysdeps/unix/bsd/sigblock.c: ... here.
  sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
  sysdeps/unix/bsd/sigsetmask.c: ... here.
  sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
  sysdeps/unix/bsd/sigvec.c: ... here.
  sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
  sysdeps/unix/bsd/tcdrain.c: ... here.
  sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
  sysdeps/unix/bsd/tcgetattr.c: ... here.
  sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
  sysdeps/unix/bsd/tcsetattr.c: ... here.
  sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
  sysdeps/unix/bsd/wait.c: ... here.
  sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
  sysdeps/unix/bsd/wait3.c: ... here.
  sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
  sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
 deleted file mode 100644
 index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait4wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxpathdr.c b/sysdeps/unix/bsd/cmsg_nxpathdr.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxpathdr.c
rename to sysdeps/unix/bsd/cmsg_nxpathdr.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-getdirentsn1__getdirentsn1__getdirentsp1
getdtsz-getpagesize0__getpagesize0__getpagesizep0
getpagesize-getpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblock1
-revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstack2
-sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmask1
-sigstack-sigstack2sigstack
-sigvec-sigvec3__sigvecsigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from 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
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
rename from sysdeps/unix/bsd/bsd4.4/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 +1 @@
-include <sysdeps/unix/bsd4.4/wait3.c>
+include <sysdeps/unix/bsd/wait3.c>

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Version 2, June 1991

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

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  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.

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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 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.

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
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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.)

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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.

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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.

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

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

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@subheading END OF TERMS AND CONDITIONS

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

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

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

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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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.

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference 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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From 0b7fa3bdd3334c70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001
From: Atin Mukherjee <amukherj@redhat.com>
Date: Mon, 12 Mar 2018 19:47:11 +0530
Subject: [PATCH 184/201] cli/glusterefsd: remove copyright information

There's no point of dumping upstream copyright information in --version.

Label: DOWNSTREAM ONLY

Change-Id: I3a10e30878698e1d53082936bbf22bca560a3896
BUG: 1550474
Signed-off-by: Atin Mukherjee <amukherj@redhat.com>
const char *argp_program_version = "" \ 
- "PACKAGE_NAME" "PACKAGE_VERSION" \ 
- "Repository revision: " GLUSTERFS_REPOSITORY_REVISION "\n" \ 
- "Copyright (c) 2006-2016 Red Hat, Inc." \ 
- "<https://www.gluster.org/>\n" \ 
- "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n" \ 
- "It is licensed to you under your choice of the GNU Lesser\n" \ 
- "General Public License, version 3 or any later version (LGPLv3\n" \ 
- "or later), or the GNU General Public License, version 2 (GPLv2),\n" \ 
- "in all cases as published by the Free Software Foundation."; \ 
+ "PACKAGE_NAME" "PACKAGE_VERSION"; \ 
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">";

struct rpc_clnt *global_quotad_rpc;
static error_t parse_opts (int32_t key, char *arg, struct argp *state);
--
1.8.3.1
From 9a95de08eb49f10c0a342099826d5e4c445749aa Mon Sep 17 00:00:00 2001
From: Mohit Agrawal <moagrawa@redhat.com>
Date: Thu, 31 May 2018 12:29:35 +0530
Subject: [PATCH 313/325] dht: Inconsistent permission for directories after
block stop/start

Problem: Inconsistent access permissions on directories after
    bringing back the down sub-volumes, in case of directories dht_setattr
    first wind a call on MDS once call is finished on MDS then wind a call
    on NON-MDS, At the time of revalidating dht just compare the uid/gid with
    stbuf uid/gid and if anyone differs set a flag to heal the same.

Solution: Add a condition to compare permission also in dht_revalidate_cbk
    to set a flag to call dht_dir_attr_heal.

> BUG: 1584517
> Change-Id: I3e039607148005015b5d93364536158380d4c5aa
> fixes: bz#1584517
> (cherry picked from commit e57cbae0bce3d8649b869eda5ec20f3c6a6d34f0)
> (Reviewed on upstream link https://review.gluster.org/#/c/20108/)

BUG: 1582066
Change-Id: 1985445521aeeddce52c0a56c20287e523aa3398b
Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/143721
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Sunil Kumar Heggodu Gopala Acharya <sheggodu@redhat.com>
---

tests/bugs/bug-1584517.t               | 70 ++++++++++++++++++++++++++++++++ test/sbugs/bug-1584517.t
xlators/cluster/dht/src/dht-common.c | 81 ++++++++++++++++++++++++++++++++xlators/cluster/dht/src/dht-common.c
xlators/cluster/dht/src/dht-common.h |  3 ++
xlators/cluster/dht/src/dht-selfheal.c |  2 -
4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t

diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
new file mode 100644
index 00000000..7f48015
--- /dev/null
+++ b/tests/bugs/bug-1584517.t
@@ -0,0 +1,70 @@
+#!/bin/bash
+. $(dirname $0)/../include.rc
+. $(dirname $0)/../volume.rc
# This test case verifies attributes (uid/gid/perm) for the directory are healed after stop/start brick. To verify the same test case change attributes of the directory after down a DHT subvolume and one AFR children. After start the volume with force and run lookup operation attributes should be healed on started bricks at the backend.

+ 
+ 
+TEST glusterd
+TEST pidof glusterd
+TEST $CLI volume create $V0 replica 3 $H0:$B0/${V0}[0,1,2,3,4,5]
+TEST $CLI volume start $V0
+TEST useradd dev -M
+TEST groupadd QA
+ 
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+ 
+TEST mkdir $M0/dironedown
+ 
+TEST kill_brick $V0 $H0 $B0/${V0}2
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "5" online_brick_count
+ 
+TEST kill_brick $V0 $H0 $B0/${V0}3
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "4" online_brick_count
+ 
+TEST kill_brick $V0 $H0 $B0/${V0}4
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "3" online_brick_count
+ 
+TEST kill_brick $V0 $H0 $B0/${V0}5
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "2" online_brick_count
+ 
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown
+ 
+#store the permissions for comparision
+permission_onedown=`ls -l $M0 | grep dironedown | awk '{print $1}'`
+ 
+TEST $CLI volume start $V0 force
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "6" online_brick_count
+ 
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+ 
+#Run lookup two times to hit revalidate code path in dht
+# to heal user attr
+ 
+TEST ls $M0/dironedown
#check attributes those were created post brick going down

```bash
+TEST brick_perm=`ls -l $B0/$V03 | grep dironedown | awk '{print $1}'`
+TEST echo $brick_perm
+TEST [ $brick_perm = $permission_onedown ]
+uid=`ls -l $B0/$V03 | grep dironedown | awk '{print $3}'`
+TEST echo $uid
+TEST [ $uid = dev ]
+gid=`ls -l $B0/$V03 | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+TEST umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
```

```diff
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
             char          gfid_local[GF_UUID_BUF_SIZE] = {0};
             char          gfid_node[GF_UUID_BUF_SIZE]  = {0};
             int32_t       mds_xattr_val[1]                 = {0};
+            call_frame_t *copy                         = NULL;
+            dht_local_t  *copy_local                   = NULL;

             GF_VALIDATE_OR_GOTO ("dht", frame, out);
             GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
             dht_aggregate_xattr (local->xattr, xattr);
         }
         
+            if (dict_get (xattr, conf->mds_xattr_key)) {
+                    local->mds_subvol = prev;
+                    local->mds_stbuf.ia_gid = stbuf->ia_gid;
+                    local->mds_stbuf.ia_uid = stbuf->ia_uid;
+                    local->mds_stbuf.ia_prot = stbuf->ia_prot;
+                }
+            
+            if (local->stbuf.ia_type != IA_INVAL) {
+                        if (!__is_root_gfid (stbuf->ia_gfid) &
+                                ((local->stbuf.ia_gfid != stbuf->ia_gfid) ||
+                                (local->stbuf.ia_uid != stbuf->ia_uid) ||
+                                (is_permission_different (&local->stbuf.ia_prot,
```
+                    &stbuf->ia_prot))}) {
+                        local->need_attrheal = 1;
+                    }
+                }
+                }
+
+                if (local->inode == NULL)
+                    local->inode = inode_ref(inode);
+
@@ -1496,6 +1515,43 @@ unlock:
+                    &local->postparent, 1);
+                }
+
+                if (local->need_attrheal) {
+                    local->need_attrheal = 0;
+                    if (!__is_root_gfid(inode->gfid)) {
+                        gf_uuid_copy(local->gfid, local->mds_stbuf.ia_gfid);
+                        local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+                        local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+                        local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
+                    }
+                    copy = create_frame(this, this->ctx->pool);
+                    if (copy) {
+                        copy_local = dht_local_init(copy, &local->loc,
+                                                     NULL, 0);
+                        if (!copy_local) {
+                            DHT_STACK_DESTROY(copy);
+                            goto skip_attr_heal;
+                        }
+                        copy_local->stbuf = local->stbuf;
+                        copy_local->mds_stbuf = local->mds_stbuf;
+                        copy_local->mds_subvol = local->mds_subvol;
+                        copy->local = copy_local;
+                        FRAME_SU_DO(copy, dht_local_t);
+                        ret = synctask_new(this->ctx->env,
+                                           dht_dir_attr_heal,
+                                           dht_dir_attr_heal_done,
+                                           copy, copy);
+                        if (ret) {
+                            gf_msg(this->name, GF_LOG_ERROR, ENOMEM,
+                                   DHT_MSG_DIR_ATTR_HEAL_FAILED,
+                                   "Synctask creation failed to heal attr ")
+                                   "for path %s gfid %s ",
+                                   local->loc.path, local->gfid);
+                        }
+                    }
+                    }
+skip_attr_heal:
    DHT_STRIP_PHASE1_FLAGS (&local->stbuf);
    dht_set_fixed_dir_stat (&local->postparent);

/* Delete mds xattr at the time of STACK UNWIND */
@@ -1516,7 +1572,7 @@ out:
    return ret;
}

-int static
+int
is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
    if ((prot1->owner.read != prot2->owner.read) ||
@@ -1677,12 +1733,12 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
        if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
            (local->stbuf.ia_uid != stbuf->ia_uid)) ||
            __is_root_gfid (stbuf->ia_gfid) &&
@@ -1828,10 +1884,9 @@ out:
    local->need_selfheal = 0;
    if (!__is_root_gfid (inode->gfid)) {
        gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
@@ -1843,8 +1898,10 @@ out:
    local->stbuf.ia_gid = local->prebuf.ia_gid;
    } else {
        gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
@@ -1843,8 +1898,10 @@ out:
        if (copy) {
            copy_local = dht_local_init (copy, &local->loc,
                NULL, 0);
@@ -1843,8 +1898,10 @@ out:
            if (!copy_local)
                if (!copy_local) {

```
+ DHT_STACK_DESTROY (copy);
  goto cont;
+ }
  copy_local->stbuf = local->stbuf;
  copy_local->mds_stbuf = local->mds_stbuf;
  copy_local->mds_subvol = local->mds_subvol;
@@ -1854,6 +1911,14 @@ out:
    dht_dir_attr_heal,
    dht_dir_attr_heal_done,
    copy, copy);
+   if (ret) {
+       gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
+               DHT_MSG_DIR_ATTR_HEAL_FAILED,
+               "Synctask creation failed to heal attr ",
+               local->loc.path, local->gfid);
+       DHT_STACK_DESTROY (copy);
+   }
}
cont:

diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
index a70342f..b40815c 100644
--- a/xlators/cluster/dht/src/dht-common.h
+++ b/xlators/cluster/dht/src/dht-common.h
@@ -298,6 +298,7 @@ struct dht_local {
   char                     need_xattr_heal;
   int                      file_count;
   int                      dir_count;
+   struct call_frame_t     *main_frame;
@@ -1491,4 +1492,6 @@ int
    dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
                int32_t valid, dht_layout_t *layout);

+int
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
#endif /* _DHT_H */

diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index e9b1db9..035a709 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2495,7 +2495,7 @@ dht_dir_attr_heal (void *data)
                NULL, NULL, NULL, NULL);
 } else {
    ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
```
- (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+ (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
    NULL, NULL, NULL, NULL);

--
1.8.3.1

1.123 gmp 6.0.0 :15.el7
1.123.1 Available under license :
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Version 3, 29 June 2007

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1.129 go-radix 1.0.0

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1.130 go-semver 0.3.0
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1.131 go-spew v1.1.1

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1.132 go-toml 1.4.0

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1.133 go-uuid 1.1.1

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1.134 gobject-introspection 1.56.1 :1.el7

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1.137 golang-mock 1.3.1-9

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1.148 grep 2.20 :3.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 Roithlat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part
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```
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
  doc/meref.me

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
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at


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under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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1.151 grub2 2.02 :0.76.el7.1

1.151.1 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)),
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>
---
grub-core(lib/arm64)/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core(lib/arm64)/setjmp.S b/grub-core(lib/arm64)/setjmp.S
index aadafe40f711..eabfd99b29e 100644
--- a/grub-core(lib/arm64)/setjmp.S
+++ b/grub-core(lib/arm64)/setjmp.S
@@ -17,8 +17,10 @@
/*

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

/*

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Version 3, 29 June 2007

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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;
+#endif
+  


```c
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_FRAMEBUF 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
}@ -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 */
+};
+
#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

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
```

1.152 grubby 8.28 :25.el7
1.152.1 Available under license :

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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                                 ===========

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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/*
 * include/uapi/linux/devlink.h - Network physical device Netlink interface
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 */

#ifndef LINUX_DEVLINK_H_
#define LINUX_DEVLINK_H_

#define DEVLINK_GENL_NAME "devlink"
#define DEVLINK_GENL_VERSION 0x1
#define DEVLINK_GENL_MCGRP_CONFIG_NAME "config"

enum devlink_command {
    /* don't change the order or add anything between, this is ABI! */
    DEVLINK_CMD_UNSPEC,

    DEVLINK_CMD_GET,/* can dump */
    DEVLINK_CMD_SET,
    DEVLINK_CMD_NEW,

#endif LINUX_DEVLINK_H_
DEVLINK_CMD_DEL,

DEVLINK_CMD_PORT_GET, /* can dump */
DEVLINK_CMD_PORT_SET,
DEVLINK_CMD_PORT_NEW,
DEVLINK_CMD_PORT_DEL,

DEVLINK_CMD_PORT_SPLIT,
DEVLINK_CMD_PORT_UNSPLIT,

DEVLINK_CMD_SB_GET, /* can dump */
DEVLINK_CMD_SB_SET,
DEVLINK_CMD_SB_NEW,
DEVLINK_CMD_SB_DEL,

DEVLINK_CMD_SB_POOL_GET, /* can dump */
DEVLINK_CMD_SB_POOL_SET,
DEVLINK_CMD_SB_POOL_NEW,
DEVLINK_CMD_SB_POOL_DEL,

DEVLINK_CMD_SB_PORT_POOL_GET, /* can dump */
DEVLINK_CMD_SB_PORT_POOL_SET,
DEVLINK_CMD_SB_PORT_POOL_NEW,
DEVLINK_CMD_SB_PORT_POOL_DEL,

DEVLINK_CMD_SB_TC_POOL_BIND_GET, /* can dump */
DEVLINK_CMD_SB_TC_POOL_BIND_SET,
DEVLINK_CMD_SB_TC_POOL_BIND_NEW,
DEVLINK_CMD_SB_TC_POOL_BIND_DEL,

/* Shared buffer occupancy monitoring commands */
DEVLINK_CMD_SB_OCC_SNAPSHOT,
DEVLINK_CMD_SB_OCC_MAX_CLEAR,

DEVLINK_CMD_ESWITCH_GET,
#define DEVLINK_CMD_ESWITCH_MODE_GET /* obsolete, never use this! */
DEVLINK_CMD_ESWITCH_SET
#define DEVLINK_CMD_ESWITCH_MODE_SET /* obsolete, never use this! */

/* add new commands above here */

__DEVLINK_CMD_MAX,
DEVLINK_CMD_MAX = __DEVLINK_CMD_MAX - 1
);
enum devlink_port_type {
    DEVLINK_PORT_TYPE_NOTSET,
    DEVLINK_PORT_TYPE_AUTO,
    DEVLINK_PORT_TYPE_ETH,
    DEVLINK_PORT_TYPE_IB,
};

enum devlink_sb_pool_type {
    DEVLINK_SB_POOL_TYPE_INGRESS,
    DEVLINK_SB_POOL_TYPE_EGRESS,
};

/* static threshold - limiting the maximum number of bytes.
 * dynamic threshold - limiting the maximum number of bytes
 * based on the currently available free space in the shared buffer pool.
 * In this mode, the maximum quota is calculated based
 * on the following formula:
 * max_quota = alpha / (1 + alpha) * Free_Buffer
 * While Free_Buffer is the amount of none-occupied buffer associated to
 * the relevant pool.
 * The value range which can be passed is 0-20 and serves
 * for computation of alpha by following formula:
 * alpha = 2 ^ (passed_value - 10)
 */

enum devlink_sb_threshold_type {
    DEVLINK_SB_THRESHOLD_TYPE_STATIC,
    DEVLINK_SB_THRESHOLD_TYPE_DYNAMIC,
};

#define DEVLINK_SB_THRESHOLD_TO_ALPHA_MAX 20

enum devlink_eswitch_mode {
    DEVLINK_ESWITCH_MODE_LEGACY,
    DEVLINK_ESWITCH_MODE_SWITCHDEV,
};

enum devlink_eswitch_inline_mode {
    DEVLINK_ESWITCH_INLINE_MODE_NONE,
    DEVLINK_ESWITCH_INLINE_MODE_LINK,
    DEVLINK_ESWITCH_INLINE_MODE_NETWORK,
    DEVLINK_ESWITCH_INLINE_MODE_TRANSPORT,
};

enum devlink_attr {
    /* don't change the order or add anything between, this is ABI! */
    DEVLINK_ATTR_UNSPEC,
}
/* bus name + dev name together are a handle for devlink entity */
DEVLINK_ATTR_BUS_NAME,/* string */
DEVLINK_ATTR_DEV_NAME,/* string */

DEVLINK_ATTR_PORT_INDEX,/* u32 */
DEVLINK_ATTR_PORT_TYPE,/* u16 */
DEVLINK_ATTR_PORT_DESIRED_TYPE,/* u16 */
DEVLINK_ATTR_PORT_NETDEV_IFINDEX,/* u32 */
DEVLINK_ATTR_PORT_NETDEV_NAME,/* string */
DEVLINK_ATTR_PORT_IBDEV_NAME,/* string */
DEVLINK_ATTR_PORT_SPLIT_COUNT,/* u32 */
DEVLINK_ATTR_PORT_SPLIT_GROUP,/* u32 */
DEVLINK_ATTR_SB_INDEX,/* u32 */
DEVLINK_ATTR_SB_SIZE,/* u32 */
DEVLINK_ATTR_SB_INGRESS_POOL_COUNT,/* u16 */
DEVLINK_ATTR_SB_EGRESS_POOL_COUNT,/* u16 */
DEVLINK_ATTR_SB_INGRESS_TC_COUNT,/* u16 */
DEVLINK_ATTR_SB_EGRESS_TC_COUNT,/* u16 */
DEVLINK_ATTR_SB_POOL_INDEX,/* u16 */
DEVLINK_ATTR_SB_POOL_TYPE,/* u8 */
DEVLINK_ATTR_SB_POOL_SIZE,/* u32 */
DEVLINK_ATTR_SB_POOL_THRESHOLD_TYPE,/* u8 */
DEVLINK_ATTR_SB_THRESHOLD,/* u32 */
DEVLINK_ATTR_SB_TC_INDEX,/* u16 */
DEVLINK_ATTR_SB_OCC_CUR,/* u32 */
DEVLINK_ATTR_SB_OCC_MAX,/* u32 */
DEVLINK_ATTR_ESWITCH_MODE,/* u16 */
DEVLINK_ATTR_ESWITCH_INLINE_MODE,/* u8 */

/* add new attributes above here, update the policy in devlink.c */

__DEVLINK_ATTR_MAX,
DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};
#endif /* _LINUX_DEVLINK_H_ */

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1.173 iputils 20160308 :10.el7

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1.174 ipvsadm 1.27 :7.el7
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ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services
offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or
later. Check out the Linux Virtual Server Project home page on the
World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/
for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and
"make menuconfig" or "make xconfig" to setup the right compiling options,
see the README of the virtual server patch for detail, then simply type
make
in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling
make install
in the source directory.
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1.178 iso-codes 3.46 :2.el7

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1.182 javapackages-tools 3.4.1 :11.el7

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1.183 jbigkit 2.0 :11.el7

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1.185 json-iterator/go 1.1.6

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1.186 kbd 1.15.5:15.el7

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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 lelong0x864ab572psf2 screen font data
>12lelong&11 with Unicode index
>16lelongxb, %d glyphs
>28lelongxb, %dx
>24lelongxb%d
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1.187 keepalived 1.3.5 :6.el7

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Jan Holmberg, <jan@artech.net>:
  o Memory framework
  o HTTP/SSL checkers
Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added don't_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman @ seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
- Extended VRRP framework to support floating priority.

1.189 kernel 3.10.0 :957.21.3.el7
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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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Temple Place - Suite 330, Boston, MA 02111-1307, USA.

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
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}
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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.

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line to the DVB mailing list)
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Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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#
import os
import re
__all__ = ['getReservedMemory', 'getTotalMemory', 'getMemoryBounds']

import blivet.arch

_reservedMemory = None
def getReservedMemory():
    """Return the amount of memory currently reserved for kdump in MB."""
    global _reservedMemory

    # Check if the value has already been read
    if _reservedMemory is not None:
        return _reservedMemory

    try:
        with open("/sys/kernel/kexec_crash_size", "r") as fobj:
            _reservedMemory = int(fobj.read()) / (1024*1024)
        return _reservedMemory
    except (ValueError, IOError):
        return 0

def getTotalMemory():
    """Return the total amount of system memory in MB

    This is the amount reported by /proc/meminfo plus the amount
    currently reserved for kdump.
    """
    memkb = 0
    fd = open('proc/meminfo').read()
    matched = re.search('^-MemTotal:.*$', fd)
    if matched:
        memkb = int(matched.group(0)[0])

    # total_memory return memory in KB, convert to MB
    availMem = memkb / 1024

    return availMem + getReservedMemory()

def getMemoryBounds():
    """Return a tuple of (lower, upper, step) for kdump reservation limits."""
If there is not enough memory available to use kdump, both lower and upper will be 0.

```python
totalMemory = getTotalMemory()
arch = blivet.arch.getArch()

if arch.startswith('ppc64'):
    lowerBound = 384
    minUsable = 1024
    step = 1
elif arch == 'aarch64':
    lowerBound = 512
    minUsable = 512
    step = 1
else:
    lowerBound = 160
    minUsable = 512
    step = 1

upperBound = (totalMemory - minUsable) - (totalMemory % step)

if upperBound < lowerBound:
    upperBound = lowerBound = 0

return (lowerBound, upperBound, step)
```

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**Version 2, June 1991**

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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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### 1.191 keyutils 1.5.8 :3.el7

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Version 2, June 1991


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Thus, it is not the intent of this section to claim rights or contest
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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 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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b) Give prominent notice with the combined library of the fact
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1.194 krb5 1.15.1 :37.el7_6

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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):
    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'^ 
             ([^ ]*)( - .*)? \*/
             \n             ', lines[ln])
    if m:
        if m.group(1) != fname:

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# and license statements in source code comments.
# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/?\.*\?\/*', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    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/slave/kpropd_rpc.c
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  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_ctx.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
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```
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密封.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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\[\text{lib/gssapi/mechglue/g_compare_name.c}\]
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the following new or changed files:

```python
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
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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
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/prop.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/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
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/kpropd.c
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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goproperties - properties file decoder for Go

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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 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
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}
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 misspell corrects commonly misspelled English words in source files.
package misspell

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* https://golang.org/src/strings/replace.go
* https://github.com/golang/go/blob/master/LICENSE

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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{
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = 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

// License struct
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 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{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
    }
}

// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
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{
    }

    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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Go support for Protocol Buffers - Google's data interchange format

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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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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 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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// Legal provides licensing info.
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*
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* https://golang.org/src/strings/replace.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
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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@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.

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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:

@item
@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
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
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@item
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@enumerate
@item
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@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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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
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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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application-supplied function or table used by this function must
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
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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
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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will operate properly with a modified version of the library, if
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

We call this license the `Lesser" General Public License because it does 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
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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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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 program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable `work that uses the Library`, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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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.

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

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  - Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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.

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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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
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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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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.

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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
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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
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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1.207 libdaemon 0.14 :7.el7
1.207.1 Available under license :

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.208 libdb 5.3.21 :24.el7
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1.210 libedit 3.0 :12.20121213cvs.el7

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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.

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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(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf
open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline
module G = Guestfs

type tmp_place =
  | Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
* temporary files (including the potentially massive overlay file), we
* need to catch SIGINT (^C) and exit cleanly so the temporary file
* goes away. Note that we don't delete temporaries in the signal
* handler.
*)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an
* input format, use that, else detect it from the source image.
*)
let output_format =
  match convert with
  | Some fmt -> fmt (* user specified output conversion *)
  | None ->
match format with
| Some fmt -> fmt (* user specified input format, use that *)
| None ->
  (* Don’t know, so we must autodetect. *)
  match (open_guestfs ())#disk_format indisk with
  | "unknown" ->
    error (f_"cannot detect input disk format; use the --format parameter")
  | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    file;
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
  | Block_device _
  | Prebuilt_file _ -> ()
  | Directory tmpdir ->
    (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
    debug "input disk virtual size is %Ld bytes (%s)"
      virtual_size (human_size virtual_size);

    let print_warning () =
      let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
      let extra_needed = virtual_size ^ free_space in
      if extra_needed > 0L then (warning (f_"

There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%!)
  tmpdir (human_size virtual_size)
  (human_size free_space) (human_size extra_needed);
  true
) else false
in

match check_tmpdir with
  | `Ignore -> ()
  | `Continue -> ignore (print_warning ())
  | `Warn ->
    if print_warning () then (
      eprintf "Press RETURN to continue or ^C to quit.\n!");
      ignore (read_line ())
    );
  | `Fail ->
    if print_warning () then (
      eprintf "Exiting because --check-tmpdir=fail was set.\n!");
      exit 2
    )
    );

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
    | Directory tmpdir ->
      message (f_"Create overlay file in %s to protect source disk") tmpdir
    | Block_device device ->
      message (f_"Create overlay device %s to protect source disk") device
    | Prebuilt_file file ->
      message (f_"Using prebuilt file %s as overlay") file
    );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
g#disk_create
match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" ~.qcow2 in
    unlink_on_exit tmp;
    create tmp;
    tmp
  | Block_device device ->
    create device;
    device
  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in
message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
  g#launch ();
  g in

  (* Decrypt the disks. *)
  inspect_decrypt g;

  (* Modify SIGINT handler (set first above) to cancel the handle. *)
  let do_sigint _ =
    g#user_cancel ();
    exit 1
  in
  Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

  (* Write zeroes for non-ignored filesystems that we are able to mount,
   * and selected swap partitions. *)
  let filesystems = g#list_filesystems () in
  let btrfs_filesystems = List.filter (
fun (fs, fstype) ->
    fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
    let fs = g#canonical_device_name fs in
    List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
    try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (  
        try
        let vol_info = g#btrfs_subvolume_show mp in
        String.find (List.assoc "Flags" vol_info) "readonly" <> -1
        with G.Error _ -> false
        ) else false
    with Not_found -> false
    in

    let is_readonly_device mp =
    let statvfs = g#statvfs mp in
    let flags = statvfs.G.flag in
    (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
    flags <> -1_L && (flags &^ 0x1_L) <> 0_L
    in

List.iter (  
    fun fs ->
    if not (is_ignored fs) && not (is_read_only_lv fs) then (  
        if List.mem fs zeroes then (  
            message (f_"Zeroing %s") fs;
            g#zero_device fs
        ) else (  
            let mounted =  
            try g#mount fs "/" true
            with _ -> false in
            if mounted then (  
                if is_readonly_btrfs_snapshot fs "/" then (  
                    info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
                else (  
            )
        )
    )
)
else if is_readonly_device "/

info (f_"Skipping %s, as it is a read-only device.") fs;
)
else (message (f_"Fill free space in %s with zero") fs;
g#zero_free_space "/

)
)
else (let is_linux_x86_swap =
 (* Look for the signature for Linux swap on i386.
 * Location depends on page size, so it definitely won't
 * work on non-x86 architectures (eg. on PPC, page size is
 * 64K). Also this avoids hibernated swap space: in those,
 * the signature is moved to a different location.
 *)
try g#pread_device fs 10 4086L = "SWAPSPACE2"
with _ -> false in

if is_linux_x86_swap then (message (f_"Clearing Linux swap on %s") fs;

(* Don't use mkswap. Just preserve the header containing
 * the label, UUID and swap format version (libguestfs
 * mkswap may differ from guest's own).
 *)
let header = g#pread_device fs 4096 0L in
g#zero_device fs;
if g#pwrite_device fs header 0L <> 4096 then
error (f_"pwrite: short write restoring swap partition header")
)
)
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)
with _ -> false in

if created then
    message (f_"Fill free space in volgroup %s with zero") vg;

    g#zero_device lvdev;
    g#sync ();
    g#lvremove lvdev
)
)
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
* destination and automatically does sparsification.
*)
message ("Copy to destination and make sparse");

let cmd =
    sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
     | None -> ""
     | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
    error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
    info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
(* virt-sparsify
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(** This is the traditional virt-sparsify mode: We copy from a
    source disk to a destination disk. *)

type tmp_place =
    | Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string option -> string option -> string list -> unit

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1.221 libidn 1.28 :4.el7

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1.224 libmnl 1.0.3 :7.el7

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*(#)col.16.8 (Berkeley) 6/17/91*

.TH COL "1" "September 2011" "util-linux" "User Commands"
.SH NAME
col - filter reverse line feeds from input
.SH SYNOPSIS
.B col
[options]
.SH DESCRIPTION
.B col
filters out reverse (and half-reverse) line feeds so the output is in the
correct order with only forward and half-forward line feeds, and replaces
white-space characters with tabs where possible. This can be useful in
processing the output of
.BR nroff (1)
and
.BR tbl (1).
.PP
.B col
reads from standard input and writes to standard output.

.SH OPTIONS
.TP
\fB\-b\fR, \fB\-no-backspaces\fR
Do not output any backspaces, printing only the last character written to
each column position.
.TP
\fB\-f\fR, \fB\-fine\fR
Forward half line feeds are permitted
.TP
\fB\-p\fR, \fB\-pass\fR
Force unknown control sequences to be passed through unchanged. Normally,
.B col
will filter out any control sequences from the input other than those
recognized and interpreted by itself, which are listed below.
.TP
\fB\-h\fR, \fB\-tabs\fR
Output tabs instead of multiple spaces.
.TP
\fB\-x\fR, \fB\-spaces\fR
Output multiple spaces instead of tabs.
.TP
\fB\-l\fR, \fB\-lines \number\fR
Buffer at least
.TP
\fB\-V\fR, \fB\-version\fR
Output version information and exit.
.TP
\fB\-H\fR, \fB\-help\fR
Output help and exit.
The control sequences for carriage motion that understands and their decimal values are listed in the following table:

- **ESC\-7**: reverse line feed (escape then 7)
- **ESC\-8**: half reverse line feed (escape then 8)
- **ESC\-9**: half forward line feed (escape then 9)
- **backspace**: moves back one column (8); ignored in the first column
- **newline**: forward line feed (10); also does carriage return
- **carriage return**: (13)
- **shift in**: shift to normal character set (15)
- **shift out**: shift to alternate character set (14)
- **space**: moves forward one column (32)
- **tab**: moves forward to next tab stop (9)
- **vertical tab**: reverse line feed (11)

All unrecognized control characters and escape sequences are discarded.
If the input attempts to back up to the last flushed line, `col` will display a warning message.

**SEE ALSO**
- `expand (1)`
- `nroff (1)`
- `tbl (1)`

**STANDARDS**
The `col` utility conforms to the Single UNIX Specification, Version 2. The `-l` option is an extension to the standard.

**HISTORY**
A `col` command appeared in Version 6 AT&T UNIX.

**AVAILABILITY**

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1.229 libnetfilter_cttimeout 1.0.0 :6.el7

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1.232 libnfsidmap 0.25 :19.el7

1.232.1 Available under license:

This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

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```
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
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@c ispell-local-pdict: "ispell-dict"
@c End:

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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.

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@heading TERMS AND CONDITIONS

@enumerate 0
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Regardless of what server hosts the Corresponding Source, you remain
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satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you
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Version 3, 29 June 2007

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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.

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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.

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For an executable, the required form of the "work that uses the
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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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**1.258 libverto 0.2.5 :4.el7**

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 *
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   *
   * $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
   */
   File: LLM_sp_sha2.c

/*
 * FILE:    sha2.h
 * AUTHOR:    Aaron D. Gifford <me@aarongifford.com>
 *
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

===============================================================================

2.

/* utility to create the register check tables
   * this includes inlined list.h safe for userspace.
   *
   * Copyright 2009 Jerome Glisse
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   *
   * Authors:
   *    Jerome Glisse
   *    Dave Airlie
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*/
File: comm_lib.h

===============================================================================

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3.

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4.

file: aes_core.c

5.

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
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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 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 $ when who what, where, why
------- -- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

File: aes_tab.h

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#
#
# 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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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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//
//
*/
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

Written by Aaron D. Gifford <me@aarongifford.com>

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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 operations 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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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

------------------------------------------------------------------------------
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 * hash_32 - 32 bit Fowler/Noll/Vo hash code
 *
 * Fowler/Noll/Vo hash
 *
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 *
------------------------------------------------------------------------------
/*
 * sha1.c
 *
 * Originally written by Steve Reid <steve@edmweb.com>
 *
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 */
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*  
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*  
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/*------------------------------------------------------------------------------

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/*------------------------------------------------------------------------------

/*
* hmac_sha1.c
*
* Version 1.0.0
*
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agere_sta_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.

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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 length. */

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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 ***
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
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>
</tbody>
</table>
PAL D/K     A2 (2)     8
PAL D/K     A2 (3)     9
PAL D/K     NICAM     10
SECAM L     Mono (default)     11
SECAM L     NICAM     12

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. ALSA 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:

__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.)

enum go7007_aspect_ratio      The aspect ratio to be encoded in the aspect_ratio 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:

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.

GO7007_IOC_S_MPEG_PARAMS, GO7007_IOC_G_MPEG_PARAMS

These ioctls 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:

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

__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_MPEG4PROFILE_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
Flags in struct go7007_mpeg_params:

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.

GO7007_IOC_S_BITRATE, GO7007_IOC_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 GO7007_IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007_IOC_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

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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The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

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The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

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1.267 lksctp-tools 1.0.17 :2.el7

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
Open Source Used In Virtualized Infrastructure Manager 3.4.0

9518

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.269 logrotate 3.8.6 :17.el7

1.269.1 Available under license :

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1.273 lttng-ust 2.4.1 :5.el7cp

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1.274 lttng-ust 2.4.1 :5.el7
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1.275 lua 5.1.4 :15.el7

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1.276 lunixbochs/struc a9e4041

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1.277 lvm2 2.02.180 :10.el7_6.8
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 * Part No: 816-1331-11
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Network Working Group  H. Krawczyk  
Request for Comments: 2104  IBM  
Category: Informational  M. Bellare  
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created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

by Jim Knoble
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cmake-2.4.8/Utilities/cmzlib/zlib.h:
zlib.h -- interface of the 'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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Sources for Time Zone and Daylight Saving Time Data
@(#)tz-link.htm 7.54

Please send corrections to this web page to the time zone mailing list.

The tz database

The public-domain time zone database contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules. This database (often called tz or zoneinfo) is used by several implementations, including the GNU C Library used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks keeping local time have agreed since 1970. Locations are identified by continent or ocean and then by the name of the location, which is typically the largest city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975; and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz, where C is the code's version; similarly, the data are in tzdataD.tar.gz, where D is the data's version. The following shell commands download these files to a GNU/Linux or similar host; see the downloaded README file for what to do next.

wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -

The code lets you compile the tz source files into machine-readable binary files, one for each location. It also lets you read a tz binary file and interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes.
to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.

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Jean-loup Gailly jloup@gzip.org
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 @brief
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***************************************************************************
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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 initally made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from https://downloads.mariadb.org/

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
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PCRE JUST-IN-TIME COMPILATION SUPPORT
----------------------------------------

Written by: Zoltan Herczeg
STACK-LESS JUST-IN-TIME COMPILER

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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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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Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode, non-2.0 slab mantissas, multithread, ...

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Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,
>
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
>
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

  Specifically, if this is done as part of documentation included with
  Mesa, is that sufficient to meet clause 2 even if the Mesa config option
  is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
 *
 * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
 * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,
Tom Callaway  
Fedora Legal

==

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#  Ian Romanick <idr@us.ibm.com>

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 *    square brackets, parentheses, braces, caret, vertical bar,
 *    ampersand, tilde, equals, exclamation point, colon, semicolon,
 *    comma, and question mark
 * * Special:
 *    Number sign (as used in preprocessor)
 *    Backslash just before newline as line continuation
 * * White space:
 *    Space, horizontal tab, vertical tab, form feed, carriage-return,
 *    and line-feed.
 * [GLSL Language Specification 4.30.6, section 3.1]
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 * Whitespace: 4 horizontal space characters each replaced with space
 *    2 newline characters each replaced with a newline
 * */

abcdeghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789
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<th>Component</th>
<th>Location</th>
<th>License</th>
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<tr>
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<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
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<td>MIT</td>
</tr>
<tr>
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<td>Khronos</td>
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<td>include/GL/glxext.h</td>
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<td>SGI Free Software License B</td>
</tr>
<tr>
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<td>Boost (permissive)</td>
</tr>
<tr>
<td>emulation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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1.294 microcode_ctl 2.1 :47.5.el7_6
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1.295 mmcloughlin/avo 83fbdad1

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1.296 mod_wsgi 3.4 :18.el7

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1.297 mozjs17 17.0.0 :20.el7

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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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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.

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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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(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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On all platforms, Nmap is normally linked with:

- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  
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- **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  
  http://code.google.com/p/libdnet/

- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  
  http://www.pcre.org/

- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/
on OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

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http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
on WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
on Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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o Various X.org libraries. These were built using MacPorts.
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk
THE C++ WRAPPER FUNCTIONS

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date = "1970-2011";
owner = "David L. Mills and/or others";
eaddr = "http://bugs.ntp.org, bugs@ntp.org";
type = note;
text = <<- _EndOfDoc_
see html/copyright.html

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};

long-opt;
config-header = config.h;
environrc;
nomisuse-usage;

version = `eval VERSION=`\$\`sed -e \'s/.*,\[//\' -e \'s/\]\]/ / ^..version.m4\`\n[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "*/ Don't use -v as a shortcut for --version */

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- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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1.315 numactl 2.0.9 :7.el7

1.316 numad 0.5 :18.20150602git.el7

1.317 numpy 1.11.2 :3.el7ost

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1.318 oci-register-machine 0 :6.git2b44233.el7

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1.322 openldap 2.4.44 :21.el7_6

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWBAND0x0100
#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 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)
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet (johnpc ) - 2012-03-23 03:25:52 PDT
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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)
#if !definedCompat_poll_H_
#defineCompat_poll_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
    /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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**************************************************************************/
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 0000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41 926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fi 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 @@ struct sshbuf *oqueue;
 /* 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 @@ process_open(u_int32_t id)
 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 @@ process_open(u_int32_t id)
dbga3("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);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
"usage: %s [-eRh] [-d start_directory] [-f log_facility] 
"[-l log_level]\n\nl[-P blacklisted_requests] 
- "[-p whitelisted_requests] [-u umask]\n"
+ "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
" %s -Q protocol_feature\n",
__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:m:cehR") != -1) { 
switch (ch) {
    case 'Q':
        if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
            (void)umask((mode_t)mask);
            break;
+ /* 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();

1.324 openssl-libs 1.0.2k :16.el7_6.1

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Installing development sandbox

In a development environment created by devstack_, Ceilometer can be tested alongside other OpenStack services.

Configuring devstack

1. Download devstack_.

2. Create a ``local.conf`` file as input to devstack.

3. The ceilometer services are not enabled by default, so they must be
enabled in `local.conf` but adding the following::

```bash
# Enable the Ceilometer devstack plugin
enable_plugin ceilometer https://git.openstack.org/openstack/ceilometer.git
```

By default, all ceilometer services except for ceilometer-ipmi agent will be enabled.

4. Enable Gnocchi storage support by including the following in `local.conf`::

```bash
CEILOMETER_BACKEND=gnocchi
```

Optionally, services which extend Ceilometer can be enabled::

```bash
enable_plugin aodh https://git.openstack.org/openstack/aodh
enable_plugin panko https://git.openstack.org/openstack/panko
```

These plugins should be added before ceilometer.

5. `./stack.sh`

.. _devstack: https://docs.openstack.org/devstack/latest/

PNG
Open Source Used In Virtualized Infrastructure Manager 3.4.0

10272
System Architecture

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

Architecture:

System Architecture

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

architecture:
High-Level Architecture
=========================

.. The source for the following diagram can be found at:
   https://docs.google.com/presentation/d/1XiOiaq9zI_DLpxY1tlkysg9VAEw2r8aYob0hjG71pNg/edit?usp=sharing

.. figure:: ./ceilo-arch.png
   :width: 100%
   :align: center
   :alt: Architecture summary

An overall summary of Ceilometer's logical architecture.

Each of Ceilometer's services are designed to scale horizontally. Additional workers and nodes can be added depending on the expected load. Ceilometer offers two core services:

1. polling agent - daemon designed to poll OpenStack services and build Meters.
2. notification agent - daemon designed to listen to notifications on message queue, convert them to Events and Samples, and apply pipeline actions.

Data normalised and collected by Ceilometer can be sent to various targets. Gnocchi was developed to capture measurement data in a time series format to optimise storage and querying. Gnocchi is intended to replace the existing metering database interface. Additionally, Aodh is the alarming service which can send alerts when user defined rules are broken. Lastly, Panko is the event storage project designed to capture document-oriented data such as logs and system event actions.

.. _Gnocchi: http://gnocchi.xyz/
.. _Aodh: https://docs.openstack.org/aodh/latest/
.. _Panko: https://docs.openstack.org/panko/latest/

Gathering the data
==================

How is data collected?
----------------------

.. figure:: ./1-agents.png
   :width: 100%
This is a representation of how the agents gather data from multiple sources.

The Ceilometer project created 2 methods to collect data:

1. Notification agent which takes messages generated on the notification bus and transforms them into Ceilometer samples or events.
2. Polling agent, will poll some API or other tool to collect information at a regular interval. The polling approach may impose significant on the API services so should only be used on optimised endpoints.

The first method is supported by the ceilometer-notification agent, which monitors the message queues for notifications. Polling agents can be configured either to poll the local hypervisor or remote APIs (public REST APIs exposed by services and host-level SNMP/IPMI daemons).

The heart of the system is the notification daemon (agent-notification) which monitors the message queue for data sent by other OpenStack components such as Nova, Glance, Cinder, Neutron, Swift, Keystone, and Heat, as well as Ceilometer internal communication.

The notification daemon loads one or more *listener* plugins, using the namespace `\`ceilometer.notification\``. Each plugin can listen to any topic, but by default, will listen to `\`notifications.info\`, `\`notifications.sample\`, and `\`notifications.error\`. The listeners grab messages off the configured topics and redistributes them to the appropriate plugins(endpoints) to be processed into Events and Samples.

Sample-oriented plugins provide a method to list the event types they're interested in and a callback for processing messages accordingly. The registered name of the callback is used to enable or disable it using...
the pipeline of the notification daemon. The incoming messages are filtered based on their event type value before being passed to the callback so the plugin only receives events it has expressed an interest in seeing.

.. _polling:

Polling Agent: Asking for data
-------------------------------

.. index::
   double: polling; architecture

.. figure:: ./2-2-collection-poll.png
   :width: 100%
   :align: center
   :alt: Polling agent

Polling agent querying services for data.

Polling for compute resources is handled by a polling agent running on the compute node (where communication with the hypervisor is more efficient), often referred to as the compute-agent. Polling via service APIs for non-compute resources is handled by an agent running on a cloud controller node, often referred to the central-agent. A single agent can fulfill both roles in an all-in-one deployment. Conversely, multiple instances of an agent may be deployed, in which case the workload is shared. The polling agent daemon is configured to run one or more *pollster* plugins using any combination of `ceilometer.poll.compute`, `ceilometer.poll.central`, and `ceilometer.poll.ipmi` namespaces

The frequency of polling is controlled via the polling configuration. See :ref:`Polling-Configuration` for details. The agent framework then passes the generated samples to the notification agent for processing.

Processing the data
====================

.. _multi-publisher:

Pipeline Manager
-----------------

.. figure:: ./3-Pipeline.png
   :width: 100%
   :align: center
   :alt: Ceilometer pipeline
The assembly of components making the Ceilometer pipeline.

Ceilometer offers the ability to take data gathered by the agents, manipulate it, and publish it in various combinations via multiple pipelines. This functionality is handled by the notification agents.

Transforming the data
---------------------

.. figure:: ./4-Transformer.png
   :width: 100%
   :align: center
   :alt: Transformer example

Example of aggregation of multiple cpu time usage samples in a single cpu percentage sample.

The data gathered from the polling and notifications agents contains a wealth of data and if combined with historical or temporal context, can be used to derive even more data. Ceilometer offers various transformers which can be used to manipulate data in the pipeline.

.. note::

   The equivalent functionality can be handled more stably by storage drivers such as Gnocchi.

Publishing the data
-------------------

.. figure:: ./5-multi-publish.png
   :width: 100%
   :align: center
   :alt: Multi-publish

This figure shows how a sample can be published to multiple destinations.

Currently, processed data can be published using 7 different transports:

1. gnocchi, which publishes samples/events to Gnocchi API;
2. notifier, a notification based publisher which pushes samples to a message queue which can be consumed by an external system;
3. udp, which publishes samples using UDP packets;
4. http, which targets a REST interface;
5. file, which publishes samples to a file with specified name and location;
Ceilometer is designed solely to generate and normalise cloud data. The data created by Ceilometer can be pushed to any number of target using publishers mentioned in :ref:`pipeline-publishers` section. The recommended workflow is to push data to Gnocchi for efficient time-series storage and resource lifecycle tracking.
.. _add_new_resource_types:

=================================
Ceilometer + Gnocchi Integration
=================================

.. warning::

    Remember that custom modification may result in conflicts with upstream upgrades. If not intended to be merged with upstream, it's advisable to directly create resource-types via Gnocchi API.

.. _resource_types:

Managing Resource Types

Resource types in Gnocchi are managed by Ceilometer. The following describes how to add/remove or update Gnocchi resource types to support new Ceilometer data.

The modification or creation of Gnocchi resource type definitions are managed `resources_update_operations` of `ceilometer/gnocchi_client.py`.

The following operations are supported:

1. Adding a new attribute to a resource type. The following adds `flavor_name` attribute to an existing `instance` resource:

```python
{"desc": "add flavor_name to instance",
 "type": "update_attribute_type",
 "resource_type": "instance",
 "data": [
  {
    "op": "add",
```
2. Remove an existing attribute from a resource type. The following removes 'server_group' attribute from 'instance' resource:

```
"desc": "remove server_group to instance",
"type": "update_attribute_type",
"resource_type": "instance",
"data": [{
    "op": "remove",
    "path": "/attributes/server_group"
}]
```

3. Creating a new resource type. The following creates a new resource type named 'nova_compute' with a required attribute 'host_name':

```
"desc": "add nova_compute resource type",
"type": "create_resource_type",
"resource_type": "nova_compute",
"data": [{
    "attributes": {
      "host_name": {
        "type": "string",
        "min_length": 0,
        "max_length": 255,
        "required": True
      }
    }
  }]
```

.. note::

Do not modify the existing change steps when making changes.
Each modification requires a new step to be added and for `ceilometer-upgrade` to be run to apply the change to Gnocchi.

With accomplishing sections above, don't forget to add a new resource type or attributes of a resource type into the `ceilometer/publisher/data/gnocchi_resources.yaml`.

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.. _measurements:

===============
Measurements
===============

Existing meters
===============

For the list of existing meters see the tables under the `Measurements page`_ of Ceilometer in the Administrator Guide.

.. _Measurements page: https://docs.openstack.org/ceilometer/latest/admin/telemetry-measurements.html

New measurements
===============

Ceilometer is designed to collect measurements from OpenStack services and from other external components. If you would like to add new meters to the currently existing ones, you need to follow the guidelines given in this section.

.. _meter_types:

Types
-----

Three type of meters are defined in Ceilometer:

.. index::
   double: meter; cumulative
   double: meter; gauge
   double: meter; delta

<table>
<thead>
<tr>
<th>Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative</td>
<td>Increasing over time (instance hours)</td>
</tr>
<tr>
<td>Gauge</td>
<td>Discrete items (floating IPs, image uploads) and fluctuating values (disk I/O)</td>
</tr>
<tr>
<td>Delta</td>
<td>Changing over time (bandwidth)</td>
</tr>
</tbody>
</table>
When you're about to add a new meter choose one type from the above list, which is applicable.

Units
-----

1. Whenever a volume is to be measured, SI approved units and their approved symbols or abbreviations should be used. Information units should be expressed in bits ('b') or bytes ('B').
2. For a given meter, the units should NEVER, EVER be changed.
3. When the measurement does not represent a volume, the unit description should always describe WHAT is measured (ie: apples, disk, routers, floating IPs, etc.).
4. When creating a new meter, if another meter exists measuring something similar, the same units and precision should be used.
5. Meters and samples should always document their units in Ceilometer (API and Documentation) and new sampling code should not be merged without the appropriate documentation.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
<th>Abbreviations</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>N/A</td>
<td>Dimension-less variable</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>byte</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>seconds</td>
<td>s</td>
<td></td>
</tr>
</tbody>
</table>

Naming convention
-----------------

If you plan on adding meters, please follow the convention below:

1. Always use ‘.’ as separator and go from least to most discriminant word. For example, do not use ephemeral_disk_size but disk.ephemeral.size

2. When a part of the name is a variable, it should always be at the end and start with a ‘:’. For example, do not use <type>.image but image:<type>, where type is your variable name.

3. If you have any hesitation, come and ask in #openstack-telemetry

Meter definitions
------------------

Meters definitions by default, are stored in separate configuration file, called `file:`ceilometer/data/meters.d/meters.yaml`. This is essentially a replacement for prior approach of writing notification handlers to consume
specific topics.

A detailed description of how to use meter definition is illustrated in the `admin_guide`_

.. _admin_guide: https://docs.openstack.org/ceilometer/latest/admin/telemetry-data-collection.html#meter-definitions

Overview
========

Objectives
==========

The Ceilometer project was started in 2012 with one simple goal in mind: to provide an infrastructure to collect any information needed regarding OpenStack projects. It was designed so that rating engines could use this single source to transform events into billable items which we label as "metering".

As the project started to come to life, collecting an `increasing number of meters`_ across multiple projects, the OpenStack community started to realize that a secondary goal could be added to Ceilometer: become a standard way to meter, regardless of the purpose of the collection. This data can then be pushed to any set of targets using provided publishers mentioned in :ref:`pipeline-publishers` section.

.. _increasing number of meters: https://docs.openstack.org/ceilometer/latest/contributor/measurements.html

Metering
========

If you divide a billing process into a 3 step process, as is commonly done in the telco industry, the steps are:

1. :term:`Metering`
2. :term:`Rating`
3. :term:`Billing`

Ceilometer's initial goal was, and still is, strictly limited to step one. This is a choice made from the beginning not to go into rating or billing, as the variety of possibilities seemed too large for the project to ever deliver a solution that would fit everyone's needs, from private to public clouds. This means that if you are looking at this project to solve your billing needs, this is the right way to go, but certainly not the end of the road for you.

PNG
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Writing Agent Plugins

This documentation gives you some clues on how to write a new agent or plugin for Ceilometer if you wish to instrument a measurement which has not yet been covered by an existing plugin.

Plugin Framework

Although we have described a list of the meters Ceilometer should collect, we cannot predict all of the ways deployers will want to measure the resources their customers use. This means that Ceilometer needs to be easy to extend and configure so it can be tuned for each installation. A plugin system based on `setuptools entry points`_ makes it easy to add new monitors in the agents. In particular, Ceilometer now uses Stevedore_, and you should put your entry point definitions in the :file:`entry_points.txt` file of your Ceilometer egg.


.. _Stevedore: https://docs.openstack.org/stevedore/latest/

Installing a plugin automatically activates it the next time the ceilometer daemon starts. Rather than running and reporting errors or simply consuming cycles for no-ops, plugins may disable themselves at runtime based on configuration settings defined by other components (for example, the plugin for polling libvirt does not run if it sees that the system is configured using some other virtualization tool). Additionally, if no valid resources can be discovered the plugin will be disabled.

Polling Agents

The polling agent is implemented in :file:`ceilometer/polling/manager.py`. As you will see in the manager, the agent loads all plugins defined in the `ceilometer.poll.*` and `ceilometer.builder.poll.*` namespaces, then periodically calls their :func:`get_samples` method.

Currently we keep separate namespaces - `ceilometer.poll.compute` and `ceilometer.poll.central` for quick separation of what to poll depending on where is polling agent running. For example, this will load, among others, the `class:`ceilometer.compute.pollsters.cpu.CPUPollster` Pollster
All pollsters are subclasses of `class:ceilometer.polling.plugin_base.PollsterBase` class. Pollsters must implement one method: `get_samples(self, manager, cache, resources)`, which returns a sequence of `Sample` objects as defined in the `file:ceilometer/sample.py` file.

Compute plugins are defined as subclasses of the `class:ceilometer.compute.pollsters.BaseComputePollster` class as defined in the `file:ceilometer/compute/pollsters/__init__.py` file.

For example, in the `CPUPollster` plugin, the `get_samples` method takes in a given list of resources representing instances on the local host, loops through them and retrieves the `cputime` details from resource. Similarly, other metrics are built by pulling the appropriate value from the given list of resources.

Notifications
=============  

Notifications in OpenStack are consumed by the notification agent and passed through `pipelines` to be normalised and re-published to specified targets.

The existing normalisation pipelines are defined in the namespace `ceilometer.notification.pipeline`.

Each normalisation pipeline are defined as subclass of `class:ceilometer.pipeline.base.PipelineManager` which interprets and builds pipelines based on a given configuration file. Pipelines are required to define `Source` and `Sink` permutations to describe how to process notification. Additionally, it must set `get_main_endpoints` which provides endpoints to be added to the main queue listener in the notification agent. This main queue endpoint inherits `class:ceilometer.pipeline.base.MainNotificationEndpoint` and is defines which notification priorities to listen, normalises the data, and redirects the data for pipeline processing or requeuing depending on `workload_partitioning` configuration.

If a pipeline is configured to support `workload_partitioning`, data from the main queue endpoints are sharded and requeued in internal queues. The notification agent configures a second notification consumer to handle these internal queues and pushes data to endpoints defined by `get_interim_endpoints` in the pipeline manager. These interim endpoints define how to handle the sharded, normalised data models for pipeline processing.

Both main queue and interim queue notification endpoints should implement:
**event_types**
A sequence of strings defining the event types the endpoint should handle

**process_notifications(self, priority, message)**
Receives an event message from the list provided to `event_types` and returns a sequence of objects. Using the SampleEndpoint, it should yield `Sample` objects as defined in the :file:`ceilometer/sample.py` file.

Two pipeline configurations exist and can be found under `ceilometer.pipeline.*`. The `sample` pipeline loads in multiple endpoints defined in `ceilometer.sample.endpoint` namespace. Each of the endpoints normalises a given notification into different samples.

PNG
Events and Event Processing

Events vs. Samples

In addition to Meters, and related Sample data, Ceilometer can also process Events. While a Sample represents a single numeric datapoint, driving a Meter that represents the changes in that value over time, an Event represents the state of an object in an OpenStack service (such as an Instance in Nova, or an Image in Glance) at a point in time when something of interest has occurred. This can include non-numeric data, such as an instance's flavor, or network address.

In general, Events let you know when something has changed about an object in an OpenStack system, such as the resize of an instance, or creation of an image.

While Samples can be relatively cheap (small), disposable (losing an individual sample datapoint won't matter much), and fast, Events are larger, more
informative, and should be handled more consistently (you do not want to lose one).

Event Structure

To facilitate downstream processing (billing and/or aggregation), a minimum required data set and format has been defined for services, however events generally contain the following information:

- **event_type**: A dotted string defining what event occurred, such as `compute.instance.resize.start`
- **message_id**: A UUID for this event.
- **generated**: A timestamp of when the event occurred on the source system.
- **traits**: A flat mapping of key-value pairs. The event’s Traits contain most of the details of the event. Traits are typed, and can be strings, ints, floats, or datetimes.
- **raw**: (Optional) Mainly for auditing purpose, the full notification message can be stored (unindexed) for future evaluation.

Events from Notifications

Events are primarily created via the notifications system in OpenStack. OpenStack systems, such as Nova, Glance, Neutron, etc. will emit notifications in a JSON format to the message queue when some notable action is taken by that system. Ceilometer will consume such notifications from the message queue, and process them.

The general philosophy of notifications in OpenStack is to emit any and all data someone might need, and let the consumer filter out what they are not interested in. In order to make processing simpler and more efficient, the notifications are stored and processed within Ceilometer as Events. The notification payload, which can be an arbitrarily complex JSON data structure, is converted to a flat set of key-value pairs known as Traits. This conversion is specified by a config file, so that only the specific fields within the notification that are actually needed for processing the event will have to be stored as Traits.
Note that the Event format is meant for efficient processing and querying, there are other means available for archiving notifications (i.e. for audit purposes, etc), possibly to different datastores.

Converting Notifications to Events

In order to make it easier to allow users to extract what they need, the conversion from Notifications to Events is driven by a configuration file (specified by the flag definitions_cfg_file_in :file:`ceilometer.conf`).

This includes descriptions of how to map fields in the notification body to Traits, and optional plugins for doing any programmatic translations (splitting a string, forcing case, etc.)

The mapping of notifications to events is defined per event_type, which can be wildcarded. Traits are added to events if the corresponding fields in the notification exist and are non-null. (As a special case, an empty string is considered null for non-text traits. This is due to some openstack projects (mostly Nova) using empty string for null dates.)

If the definitions file is not present, a warning will be logged, but an empty set of definitions will be assumed. By default, any notifications that do not have a corresponding event definition in the definitions file will be converted to events with a set of minimal, default traits. This can be changed by setting the flag drop_unmatched_notifications_in the :file:`ceilometer.conf` file. If this is set to True, then any notifications that don't have events defined for them in the file will be dropped.

This can be what you want, the notification system is quite chatty by design (notifications philosophy is "tell us everything, we'll ignore what we don't need"), so you may want to ignore the noisier ones if you don't use them.

.. _definitions_cfg_file: http://docs.openstack.org/trunk/config-reference/content/ch_configuring-openstack-telemetry.html

.. _drop_unmatched_notifications: http://docs.openstack.org/trunk/config-reference/content/ch_configuring-openstack-telemetry.html

There is a set of default traits (all are TEXT type) that will be added to all events if the notification has the relevant data:

* service: (All notifications should have this) notification's publisher
* tenant_id
* request_id
* project_id
* user_id

These do not have to be specified in the event definition, they are
automatically added, but their definitions can be overridden for a given
``event_type``.

Definitions file format
-----------------------

The event definitions file is in YAML format. It consists of a list of event
definitions, which are mappings. Order is significant, the list of definitions
is scanned in reverse order (last definition in the file to the first),
to find a definition which matches the notification's event_type. That
definition will be used to generate the Event. The reverse ordering is done
because it is common to want to have a more general wildcarded definition
(such as ``compute.instance.*``) with a set of traits common to all of those
events, with a few more specific event definitions (like
``compute.instance.exists``) afterward that have all of the above traits, plus
a few more. This lets you put the general definition first, followed by the
specific ones, and use YAML mapping include syntax to avoid copying all of the
trait definitions.

Event Definitions
------------------

Each event definition is a mapping with two keys (both required):

    event_type
    This is a list (or a string, which will be taken as a 1 element
    list) of event_types this definition will handle. These can be
    wildcarded with unix shell glob syntax. An exclusion listing
    (starting with a '!') will exclude any types listed from matching.
    If ONLY exclusions are listed, the definition will match anything
    not matching the exclusions.

    traits
    This is a mapping, the keys are the trait names, and the values are
    trait definitions.

Trait Definitions
------------------

Each trait definition is a mapping with the following keys:

    type
    (optional) The data type for this trait. (as a string). Valid
    options are: *text*, *int*, *float*, and *datetime*.
    defaults to *text* if not specified.

    fields
    A path specification for the field(s) in the notification you wish
    to extract for this trait. Specifications can be written to match
    multiple possible fields, the value for the trait will be derived
from the matching fields that exist and have a non-null values in the notification. By default the value will be the first such field. (plugins can alter that, if they wish). This is normally a string, but, for convenience, it can be specified as a list of specifications, which will match the fields for all of them. (See `Field Path Specifications` for more info on this syntax.)

plugin
(optional) This is a mapping (For convenience, this value can also be specified as a string, which is interpreted as the name of a plugin to be loaded with no parameters) with the following keys:

name
(string) name of a plugin to load

parameters
(optional) Mapping of keyword arguments to pass to the plugin on initialization. (See documentation on each plugin to see what arguments it accepts.)

Field Path Specifications
-------------------------

The path specifications define which fields in the JSON notification body are extracted to provide the value for a given trait. The paths can be specified with a dot syntax (e.g. `payload.host`). Square bracket syntax (e.g. `payload[host]`) is also supported. In either case, if the key for the field you are looking for contains special characters, like '.', it will need to be quoted (with double or single quotes) like so:

::

    payload.image_meta.'org.openstack__1__architecture'

The syntax used for the field specification is a variant of JSONPath, and is fairly flexible. (see: https://github.com/kennknowles/python-jsonpath-rw for more info)

Example Definitions file
--------------------------

::

---
- event_type: compute.instance.*
  traits: &instance_traits
    user_id:
      fields: payload.user_id
instance_id:
fields: payload.instance_id

host:
fields: publisher_id

plugin:
  name: split
  parameters:
    segment: 1
    max_split: 1

service_name:
fields: publisher_id

plugin: split

instance_type_id:
  type: int
  fields: payload.instance_type_id

os_architecture:
fields: payload.image_meta.'org.openstack__1__architecture'

launched_at:
  type: datetime
  fields: payload.launched_at

deleted_at:
  type: datetime
  fields: payload.deleted_at

- event_type:
  - compute.instance.exists
  - compute.instance.update

traits:
<<: *instance_traits

audit_period_beginning:
  type: datetime
  fields: payload.audit_period_beginning

audit_period_ending:
  type: datetime
  fields: payload.audit_period_ending

Trait plugins
-------------

Trait plugins can be used to do simple programmatic conversions on the value in a notification field, like splitting a string, lowercasing a value, converting a screwball date into ISO format, or the like. They are initialized with the parameters from the trait definition, if any, which can customize their behavior for a given trait. They are called with a list of all matching fields from the notification, so they can derive a value from multiple fields. The plugin will be called even if there are no fields found matching the field path(s), this lets a plugin set a default value, if needed. A plugin can also reject a value by returning *None*, which will cause the trait not to be added. If the plugin returns anything other than *None*, the trait's value
will be set to whatever the plugin returned (coerced to the appropriate type for the trait).

Building Notifications
~~~~~~~~~~~~~~

In general, the payload format OpenStack services emit could be described as the Wild West. The payloads are often arbitrary data dumps at the time of the event which is often susceptible to change. To make consumption easier, the Ceilometer team offers: CADF_, an open, cloud standard which helps model cloud events.

.. _CADF: https://docs.openstack.org/pycdf/latest/

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Open Source Used In Virtualized Infrastructure Manager 3.4.0
10359
Contributor Guide

In the Contributor Guide, you will find documented policies for developing with Ceilometer. This includes the processes we use for bugs, contributor onboarding, core reviewer memberships, and other procedural items.

Ceilometer follows the same workflow as other OpenStack projects. To start contributing to Ceilometer, please follow the workflow found here_.

.. _here: https://wiki.openstack.org/wiki/Gerrit_Workflow

:Bug tracker: https://bugs.launchpad.net/ceilometer
:Mailing list: http://lists.openstack.org/cgi-bin/mailman/listinfo/openstack-dev (prefix subjects with `[Ceilometer]` for faster responses)
:Code Hosting: https://git.openstack.org/cgit/openstack/ceilometer/
:Code Review: https://review.openstack.org/#/q/status:open+project:openstack/ceilometer,n,z

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===============

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   testing
   gmr

Development
Open Source Used In Virtualized Infrastructure Manager 3.4.0

10375

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================================
Running the Tests
================================

Ceilometer includes an extensive set of automated unit tests which are
run through tox.

1. Install `tox`:

   $ sudo pip install tox

2. Run the unit and code-style tests:

   $ cd /opt/stack/ceilometer
   $ tox -e py27,pep8

As tox is a wrapper around testr, it also accepts the same flags as testr.
See the `testr documentation` for details about these additional flags.

.. _testr documentation: https://testrepository.readthedocs.org/en/latest/MANUAL.html

Use a double hyphen to pass options to testr. For example, to run only tests
under tests/unit/image:

   $ tox -e py27 -- image

To debug tests (ie. break into pdb debugger), you can use "debug" tox
environment. Here's an example, passing the name of a test since you'll
normally only want to run the test that hits your breakpoint:

   $ tox -e debug ceilometer.tests.unit.test_bin

For reference, the `debug` tox environment implements the instructions
here: https://wiki.openstack.org/wiki/Testr#Debugging_.28pdb.29_Tests

.. _tox: https://tox.readthedocs.io/en/latest/

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Guru Meditation Reports
=======================

Ceilometer contains a mechanism whereby developers and system administrators can generate a report about the state of a running Ceilometer executable. This report is called a *Guru Meditation Report* (*GMR* for short).

Generating a GMR

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

A *GMR* can be generated by sending the *USR1* signal to any Ceilometer process with support (see below). The *GMR* will then be outputted standard error for that particular process.

For example, suppose that `ceilometer-polling` has process id `8675`, and was run with `2>/var/log/ceilometer/ceilometer-polling.log`. Then, `kill -USR1 8675` will trigger the Guru Meditation report to be printed to `~/var/log/ceilometer/ceilometer-polling.log`.

Structure of a GMR

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

The *GMR* is designed to be extensible; any particular executable may add its own sections. However, the base *GMR* consists of several sections:

Package

Shows information about the package to which this process belongs, including version information

Threads

Shows stack traces and thread ids for each of the threads within this process

Green Threads

Shows stack traces for each of the green threads within this process (green threads don't have thread ids)

Configuration
Adding Support for GMRs to New Executables

Adding support for a *GMR* to a given executable is fairly easy.

First import the module (currently residing in oslo-incubator), as well as the Ceilometer version module:

```python
from oslo_reports import guru_meditation_report as gmr
from ceilometer import version
```

Then, register any additional sections (optional):

```python
TextGuruMeditation.register_section('Some Special Section',
                                   some_section_generator)
```

Finally (under main), before running the "main loop" of the executable (usually `service.server(server)` or something similar), register the *GMR* hook:

```python
TextGuruMeditation.setup_autorun(version)
```

Extending the GMR

As mentioned above, additional sections can be added to the GMR for a particular executable. For more information, see the inline documentation about oslo.reports:

`oslo.reports <https://docs.openstack.org/oslo.reports/latest/>`_

1.326 openstack-dashboard-theme 13.0.0
:1.el7ost
Tips for Doc Writers (and Developers, too!)

Here are some useful tips about questions that come up a lot but aren't always easy to find answers to.

* Make example URLs consistent

For consistency, example URLs for openstack components are in the form:

.. code::

    project.openstack.example.org

So, for example, an example image-list call to Glance would use a URL written like this:

.. code::

    http://glance.openstack.example.org/v2/images

* URLs for OpenStack project documentation

Each project's documentation is published to the following URLs:

- ``https://docs.openstack.org/$project-name/latest`` - built from master
- ``https://docs.openstack.org/$project-name/$series`` - built from stable

For example, the Glance documentation is published to:

- ``https://docs.openstack.org/glance/latest`` - built from master
- ``https://docs.openstack.org/glance/ocata`` - built from stable/ocata

* URLs for OpenStack API Reference Guides

Each project's API Reference Guide is published to:

- ``https://developer.openstack.org/api-ref/$service-type``

For example, the Glance Image Service API Reference guide is published to:
Where to Contribute

There are a few different kinds of documentation associated with Glance to which you may want to contribute:

* Configuration

As you read through the sample configuration files in the `etc` directory in the source tree, you may find typographical errors, or grammatical problems, or text that could use clarification. The Glance team welcomes your contributions, but please note that the sample configuration files are generated, not static text. Thus you must modify the source code where the particular option you're correcting is defined and then re-generate the config file using `tox -e genconfig`.

* Glance's Documentation

The Glance Documentation (what you're reading right now) lives in the source code tree under `doc/source`. It consists of information for developers working on Glance, information for consumers of the OpenStack Images APIs implemented by Glance, and information for operators deploying Glance. Thus there's a wide range of documents to which you could contribute.

Small improvements can simply be addressed by a patch, but it's probably a good idea to first file a bug for larger changes so they can be tracked more easily (especially if you plan to submit several different patches to address the shortcoming).

* User Guides

There are several user guides published by the OpenStack Documentation Team. Please see the README in their code repository for more information: https://github.com/openstack/openstack-manuals

* OpenStack API Reference

There's a "quick reference" guide to the APIs implemented by Glance: http://developer.openstack.org/api-ref/image/

The guide is generated from source files in the source code tree under `api-ref/source`. Corrections in spelling or typographical errors may be addressed directly by a patch. If you note a divergence between the API reference and the actual behavior of Glance, please file a bug before submitting a patch.
Additionally, now that the quick reference guides are being maintained by each project (rather than a central team), you may note divergences in format between the Glance guides and those of other teams. For example, some projects may have adopted an informative new way to display error codes. If you notice structural improvements that our API reference is missing, please file a bug. And, of course, we would also welcome your patch implementing the improvement!

Release Notes
------------

Release notes are notes available for operators to get an idea what each project has included and changed during a cycle. They may also include various warnings and notices.

Generating release notes is done with Reno.

.. code-block:: bash

    $ tox -e venv -- reno new <bug-,bp-,whatever>

This will generate a yaml file in `releasenotes/notes` that will contain instructions about how to fill in (or remove) the various sections of the document. Modify the yaml file as appropriate and include it as part of your commit.

Commit your note to git (required for reno to pick it up):

.. code-block:: bash

    $ git add releasenotes/notes/<note>; git commit

Once the release notes have been committed you can build them by using:

.. code-block:: bash

    $ tox -e releasenotes

This will create the HTML files under `releasenotes/build/html/`.

**NOTE**: The `prelude` section in the release notes is to highlight only the important changes of the release. Please word your note accordingly and be judicious when adding content there. We don’t encourage extraneous notes and at the same time we don’t want to miss out on important ones. In short, not every release note will need content in the `prelude` section. If you’re working on required a spec, then a prelude is appropriate. If you’re submitting a bugfix, most likely not; a spec-lite is a judgement call.
Glance domain model implementation

Gateway and basic layers

The domain model contains the following layers:

#. :ref:`authorization`
#. :ref:`property`
#. :ref:`notifier`
#. :ref:`policy`
#. :ref:`quota`
#. :ref:`location`
#. :ref:`database`

The schema below shows a stack that contains the Image domain layers and their locations:

.. figure:: ../images/glance_layers.png
   :figwidth: 100%
   :align: center
   :alt: From top to bottom, the stack consists of the Router and REST API, which are above the domain implementation. The Auth, Property Protection (optional), Notifier, Policy, Quota, Location, and Database represent the domain implementation. The Registry (optional) and Data Access sit below the domain implementation. Further, the Client block calls the Router; the Location block calls the Glance Store, and the Data Access layer calls the DBMS. Additional information conveyed in the image is the location in
the Glance code of the various components:
Router: api/v2/router.py
REST API: api/v2/*/Auth: api/authorization.py
Property Protection: api/property_protections.py
Notifier: notifier.py
Policy: api/policy.py
Quota: quota/__init__.py
Location: location.py
DB: db/__init__.py
Registry: registry/v2/*
Data Access: db/sqlalchemy/api.py

.. _authorization:

Authorization
-------------

The first layer of the domain model provides a verification of whether an image itself or its property can be changed. An admin or image owner can apply the changes. The information about a user is taken from the request `context` and is compared with the image `owner`. If the user cannot apply a change, a corresponding error message appears.

.. _property:

Property protection
-------------------

The second layer of the domain model is optional. It becomes available if you set the `property_protection_file` parameter in the Glance configuration file.

There are two types of image properties in Glance:

* Core properties*, as specified in the image schema
* Meta properties*, which are the arbitrary key/value pairs that can be added to an image

The property protection layer manages access to the meta properties through Glances public API calls. You can restrict the access in the property protection configuration file.

.. _notifier:

Notifier
--------
On the third layer of the domain model, the following items are added to the message queue:

#. Notifications about all of the image changes
#. All of the exceptions and warnings that occurred while using an image

.. _policy:

Policy
------

The fourth layer of the domain model is responsible for:

#. Defining access rules to perform actions with an image. The rules are defined in the :file:`etc/policy.json` file.
#. Monitoring of the rules implementation.

.. _quota:

Quota
-----

On the fifth layer of the domain model, if a user has an admin-defined size quota for all of his uploaded images, there is a check that verifies whether this quota exceeds the limit during an image upload and save:

* If the quota does not exceed the limit, then the action to add an image succeeds.
* If the quota exceeds the limit, then the action does not succeed and a corresponding error message appears.

.. _location:

Location
--------

The sixth layer of the domain model is used for interaction with the store via the ``glance_store`` library, like upload and download, and for managing an image location. On this layer, an image is validated before the upload. If the validation succeeds, an image is written to the ``glance_store`` library.

This sixth layer of the domain model is responsible for:

#. Checking whether a location URI is correct when a new location is added
#. Removing image data from the store when an image location is changed
#. Preventing image location duplicates

.. _database:
Database
--------

On the seventh layer of the domain model:

* The methods to interact with the database API are implemented.
* Images are converted to the corresponding format to be recorded in the database. And the information received from the database is converted to an Image object.

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Module Reference
================

.. toctree::
   :maxdepth: 1

   api/autoindex

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Guideline On Refreshing Configuration Files Under etc/
======================================================
During a release cycle many configuration options are changed or updated. The sample configuration files provided in tree (under `etc/*`) need to be updated using the autogeneration tool as these files are being used in different places. Some examples are devstack gates, downstream packagers shipping with the same (or using defaults from these files), etc. Hence, before we cut a release we need to refresh the configuration files shipped with tree to match the changes done in the source code during the release cycle.

In an ideal world, every review that proposes an addition, removal or update to a configuration option(s) should use the tox tool to refresh only the configuration option(s) that were changed. However, many of the configuration options like those coming from oslo.messaging, oslo_middleware, etc. may have changed in the meantime. So, whenever someone uses the tool to autogenerate the configuration files based on the options in tree, there are more changes than those made just by the author.

We do not recommend the authors to manually edit the autogenerated files so, a reasonable tradeoff is for the authors to include **only those files** that are affected by their change(s).

```
$ tox -e genconfig
```

**When To Refresh The Sample Configuration Files**

* Every review that proposes an addition, removal or update to a configuration option(s) should use the tox tool to refresh only the configuration option(s) they have changed.
* Ideally reviewers should request updates to sample configuration files for every change that attempts to add/delete/modify a configuration option(s) in the code.
* In some situations however, there may be a bunch of similar changes that are affecting the configuration files. In this case, in order to make the developers’ and reviewers’ effort easier, we recommend an update to the configuration files in bulk right after all the update changes have been made/merged.

**IMPORTANT NOTE**: All sample configuration files must be updated before the milestone-3 (or the final release) of the project.

**Blueprints and Specs**

The Glance team uses the `glance-specs`
The Glance team enforces a deadline for specs proposals. It’s a soft freeze that happens after the first milestone is cut and before the second milestone is out. There's a freeze exception week that follows the freeze week. A new proposal can still be submitted during this period, but be aware that it will most likely be postponed unless a particularly good argument is made in favor of having an exception for it.

Please note that we use a `template <http://git.openstack.org/cgit/openstack/glance-specs/tree/specs/template.rst>`_ for spec submissions. It is not required to fill out all sections in the template. Review of the spec may require filling in information left out by the submitter.

### Spec Notes

There are occasions when a spec will be approved and the code will not land in the cycle it was targeted at. For these cases, the work flow to get the spec into the next release is as follows:

* Anyone can propose a patch to glance-specs which moves a spec from the previous release into the new release directory.

.. NOTE: mention the `approved`, `implemented` dirs

The specs which are moved in this way can be fast-tracked into the next release. Please note that it is required to re-propose the spec for the new release however and that it'll be evaluated based on the resources available and cycle priorities.

### Glance Spec Lite

In addition to the heavy-duty design documents described above, we've made a provision for lightweight design documents for developers who have an idea for a small, uncontroversial change. In such a case, you can propose a *spec lite*, which is a quick description of what you want to do.

You propose a spec-lite in the same way you propose a full spec: copy the `spec-lite template <http://git.openstack.org/cgit/openstack/glance-specs/tree/specs/spec-lite-template.rst>`_ in the **approved** directory for the release cycle in which you're proposing.
the change, fill out the appropriate sections, and put up a patch in gerrit.

Lite spec Submission Guidelines
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Before we dive into the guidelines for writing a good lite spec, it is worth mentioning that depending on your level of engagement with the Glance project and your role (user, developer, deployer, operator, etc.), you are more than welcome to have a preliminary discussion of a potential lite spec by reaching out to other people involved in the project. This usually happens by posting mails on the relevant mailing lists (e.g. `openstack-dev <http://lists.openstack.org>` - include [glance] in the subject) or on #openstack-glance IRC channel on Freenode. If current ongoing code reviews are related to your feature, posting comments/questions on gerrit may also be a way to engage. Some amount of interaction with Glance developers will give you an idea of the plausibility and form of your lite spec before you submit it. That said, this is not mandatory.

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============
Domain model
============

The main goal of a domain model is refactoring the logic around object manipulation by splitting it to independent layers. Each subsequent layer wraps the previous one creating an "onion" structure, thus realizing a design pattern called "Decorator." The main feature of domain model is to use a composition instead of inheritance or basic decoration while building an architecture. This provides flexibility and transparency of an internal organization for a developer, because he does not know what layers are used and works with a domain model object as with a common object.
Inner architecture
~~~~~~~~~~~~~~~~~~

Each layer defines its own operations implementation through a special `proxy` class. At first, operations are performed on the upper layer, then they successively pass the control to the underlying layers.

The nesting of layers can be specified explicitly using a programmer interface Gateway or implicitly using `helper` classes. Nesting may also depend on various conditions, skipping or adding additional layers during domain object creation.

Proxies
~~~~~~~

The layer behavior is described in special `proxy` classes that must provide exactly the same interface as the original class does. In addition, each `proxy` class has a field `base` indicating a lower layer object that is an instance of another `proxy` or `original` class.

To access the rest of the fields, you can use special `proxy` properties or universal methods `set_property` and `get_property`.

In addition, the `proxy` class must have an `__init__` format method:

```
def __init__(self, base, helper_class=None, helper_kwargs=None, **kwargs)
```

where `base` corresponds to the underlying object layer, `proxy_class` and `proxy_kwargs` are optional and are used to create a `helper` class.

Thus, to access a `meth1` method from the underlying layer, it is enough to call it on the `base` object:

```
def meth1(*args, **kwargs):
    self.base.meth1(*args, **kwargs)
```

To get access to the domain object field, it is recommended to use properties that are created by an auxiliary function:

```
def _create_property_proxy(attr):
    def get_attr(self):
        return getattr(self.base, attr)
```
def set_attr(self, value):
    return setattr(self.base, attr, value)

def del_attr(self):
    return delattr(self.base, attr)

return property(get_attr, set_attr, del_attr)

So, the reference to the underlying layer field `prop1` looks like:

class Proxy(object):
    prop1 = _create_property_proxy('prop1')

If the number of layers is big, it is reasonable to create a common parent `proxy` class that provides further control transfer. This facilitates the writing of specific layers if they do not provide a particular implementation of some operation.

Gateway
~~~~~~~

``gateway`` is a mechanism to explicitly specify a composition of the domain model layers. It defines an interface to retrieve the domain model object based on the `proxy` classes described above.

Example of the gateway implementation
-------------------------------------

This example defines three classes:

* `Base` is the main class that sets an interface for all the `proxy` classes.
* `LoggerProxy` class implements additional logic associated with the logging of messages from the `print_msg` method.
* `ValidatorProxy` class implements an optional check that helps to determine whether all the parameters in the `sum_numbers` method are positive.

```
class Base(object):
    """Base class in domain model.""
    msg = "Hello Domain"

    def print_msg(self):
        ...
print(self.msg)

def sum_numbers(self, *args):
    return sum(args)

class LoggerProxy(object):
    """Class extends functionality by writing message to log."""
    def __init__(self, base, logg):
        self.base = base
        self.logg = logg

    # Proxy to provide implicit access to inner layer.
    msg = _create_property_proxy('msg')

    def print_msg(self):
        # Write message to log and then pass the control to inner layer.
        self.logg.write("Message %s has been written to the log") % self.msg
        self.base.print_msg()

def sum_numbers(self, *args):
    # Nothing to do here. Just pass the control to the next layer.
    return self.base.sum_numbers(*args)

class ValidatorProxy(object):
    """Class validates that input parameters are correct."""
    def __init__(self, base):
        self.base = base

    msg = _create_property_proxy('msg')

def print_msg(self):
    # There are no checks.
    self.base.print_msg()

    def sum_numbers(self, *args):
        # Validate input numbers and pass them further.
        for arg in args:
            if arg <= 0:
                return "Only positive numbers are supported."
        return self.base.sum_numbers(*args)

    Thus, the `gateway` method for the above example may look like:

    ::

def gateway(logg, only_positive=True):
    base = Base()
    logger = LoggerProxy(base, logg)
if only_positive:
    return ValidatorProxy(logger)
return logger

domain_object = gateway(sys.stdout, only_positive=True)

It is important to consider that the order of the layers matters. And even if layers are logically independent from each other, rearranging them in different order may lead to another result.

Helpers

```
`Helper` objects are used for an implicit nesting assignment that is based on a specification described in an auxiliary method (similar to `gateway`). This approach may be helpful when using a *simple factory* for generating objects. Such a way is more flexible as it allows specifying the wrappers dynamically.

The `helper` class is unique for all the `proxy` classes and it has the following form:

```
class Helper(object):
    def __init__(self, proxy_class=None, proxy_kwargs=None):
        self.proxy_class = proxy_class
        self.proxy_kwargs = proxy_kwargs or {}

    def proxy(self, obj):
        """Wrap an object."""
        if obj is None or self.proxy_class is None:
            return obj
        return self.proxy_class(obj, **self.proxy_kwargs)

    def unproxy(self, obj):
        """Return object from inner layer."""
        if obj is None or self.proxy_class is None:
            return obj
        return obj.base

Example of a simple factory implementation

```

Here is a code of a *simple factory* for generating objects from the previous example. It specifies a `BaseFactory` class with a `generate` method and related `proxy` classes:
class BaseFactory(object):
    """Simple factory to generate an object."""
    def generate(self):
        return Base()

class LoggerFactory(object):
    """Proxy class to add logging functionality."""
    def __init__(self, base, logg, proxy_class=None, proxy_kwargs=None):
        self.helper = Helper(proxy_class, proxy_kwargs)
        self.base = base
        self.logg = logg

    def generate(self):
        return self.helper.proxy(self.base.generate())

class ValidatorFactory(object):
    """Proxy class to add validation."""
    def __init__(self, base, only_positive=True, proxy_class=None, proxy_kwargs=None):
        self.helper = Helper(proxy_class, proxy_kwargs)
        self.base = base
        self.only_positive = only_positive

    def generate(self):
        if self.only_positive:
            # Wrap in ValidatorProxy if required.
            return self.helper.proxy(self.base.generate())
        return self.base.generate()

Further, `BaseFactory` and related `proxy` classes are combined together:

```
def create_factory(logg, only_positive=True):
    base_factory = BaseFactory()
    logger_factory = LoggerFactory(base_factory, logg,
        proxy_class=LoggerProxy,
        proxy_kwarg=dict(logg=logg))
    validator_factory = ValidatorFactory(logger_factory, only_positive,
        proxy_class=ValidatorProxy)
    return validator_factory
```

Ultimately, to generate a domain object, you create and run a factory method `generate` which implicitly creates a composite object. This method is based on specifications that are set forth in the `proxy` class.
factory = create_factory(sys.stdout, only_positive=False)
domain_object = factory.generate()

Why do you need a domain if you can use decorators?

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

In the above examples, to implement the planned logic, it is quite possible to use standard Python language techniques such as decorators. However, to implement more complicated operations, the domain model is reasonable and justified.

In general, the domain is useful when:

* there are more than three layers. In such case, the domain model usage facilitates the understanding and supporting of the code;
* wrapping must be implemented depending on some conditions, including dynamic wrapping;
* there is a requirement to wrap objects implicitly by helpers.

Glance Contribution Guidelines

In the Contributions Guide, you will find documented policies for developing with Glance. This includes the processes we use for blueprints and specs, bugs, contributor onboarding, core reviewer memberships, and other procedural items.

Glance, as with all OpenStack projects, is written with the following design guidelines in mind:

* **Component based architecture**: Quickly add new behaviors
* **Highly available**: Scale to very serious workloads
* **Fault tolerant**: Isolated processes avoid cascading failures
* **Recoverable**: Failures should be easy to diagnose, debug, and rectify
* **Open standards**: Be a reference implementation for a community-driven api

This documentation is generated by the Sphinx toolkit and lives in the source tree. Additional documentation on Glance and other components of OpenStack can be found on the `OpenStack wiki <http://wiki.openstack.org>`_.

Developer reference

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

.. toctree::
   :maxdepth: 2
Glance database architecture

Glance Database Public API
The Glance Database API contains several methods for moving image metadata to and from persistent storage. You can find a list of public methods grouped by category below.

Common parameters for image methods
-------------------------------------

The following parameters can be applied to all of the image methods below:
- ``context`` corresponds to a glance.context.RequestContext object, which stores the information on how a user accesses the system, as well as additional request information.
- ``image_id`` a string corresponding to the image identifier.
- ``memb_id`` a string corresponding to the member identifier of the image.

Image basic methods
-------------------

**Image processing methods:**

1. ``image_create(context, values)`` creates a new image record with parameters listed in the *values* dictionary. Returns a dictionary representation of a newly created *glance.db.sqlalchemy.models.Image* object.
2. ``image_update(context, image_id, values, purge_props=False, from_state=None)`` updates the existing image with the identifier *image_id* with the values listed in the *values* dictionary. Returns a dictionary representation of the updated *Image* object.
3. ``image_destroy(context, image_id)`` deletes all database records of an image with the identifier *image_id* (like tags, properties, and members) and sets a 'deleted' status on all the image locations.
4. ``image_get(context, image_id, force_show_deleted=False)`` gets an image with the identifier *image_id* and returns its dictionary representation. The parameter *force_show_deleted* is a flag that indicates to show image info even if it was 'deleted', or its 'pending_delete' statuses.
5. ``image_get_all(context, filters=None, marker=None, limit=None, sort_key=None, sort_dir=None, member_status='accepted', is_public=None, admin_as_user=False, return_tag=False)`` gets
all the images that match zero or more filters.

Optional parameters are:
- ``filters``  dictionary of filter keys and values. If a 'properties' key is present, it is treated as a dictionary of key/value filters in the attribute of the image properties.
- ``marker``  image id after which a page should start.
- ``limit``  maximum number of images to return.
- ``sort_key``  list of image attributes by which results should be sorted.
- ``sort_dir``  direction in which results should be sorted (asc, desc).
- ``member_status``  only returns shared images that have this membership status.
- ``is_public``  if true, returns only public images. If false, returns only private and shared images.
- ``admin_as_user``  for backwards compatibility. If true, an admin sees the same set of images that would be seen by a regular user.
- ``return_tag``  indicates whether an image entry in the result includes its relevant tag entries. This can improve upper-layer query performance and avoid using separate calls.

Image location methods
----------------------

**Image location processing methods:**

#. ``image_location_add(context, image_id, location)``
   adds a new location to an image with the identifier *image_id*. This location contains values listed in the dictionary *location*.
#. ``image_location_update(context, image_id, location)`
   updates an existing location with the identifier *location[id]* for an image with the identifier *image_id* with values listed in the dictionary *location*.
#. ``image_location_delete(context, image_id, location_id, status, delete_time=None)``
   sets a 'deleted' or 'pending_delete' *status* to an existing location record with the identifier *location_id* for an image with the identifier *image_id*.

Image property methods
----------------------

.. warning:: There is no public property update method.

So if you want to modify it, you have to delete it first and then create a new one.

**Image property processing methods:**
```
#. `image_property_create(context, values)` creates a property record with parameters listed in the `values` dictionary for an image with `values['id']`. Returns a dictionary representation of a newly created `ImageProperty` object.
#. `image_property_delete(context, prop_ref, image_ref)` deletes an existing property record with a name `prop_ref` for an image with the identifier `image_ref`.

Image member methods
---------------------

**Methods to handle image memberships:**

#. `image_member_create(context, values)` creates a member record with properties listed in the `values` dictionary for an image with `values['id']`. Returns a dictionary representation of a newly created `ImageMember` object.
#. `image_member_update(context, memb_id, values)` updates an existing member record with properties listed in the `values` dictionary for an image with `values['id']`. Returns a dictionary representation of an updated member record.
#. `image_member_delete(context, memb_id)` deletes an existing member record with `memb_id`.
#. `image_member_find(context, image_id=None, member=None, status=None)` returns all members for a given context with optional image identifier (*image_id*), member name (*member*), and member status (*status*) parameters.
#. `image_member_count(context, image_id)` returns a number of image members for an image with *image_id*.

Image tag methods
-----------------

**Methods to process images tags:**

#. `image_tag_set_all(context, image_id, tags)` changes all the existing tags for an image with `image_id` to the tags listed in the `tags` param. To remove all tags, a user just should provide an empty list.
#. `image_tag_create(context, image_id, value)` adds a `value` to tags for an image with `image_id`. Returns the value of a newly created tag.
#. `image_tag_delete(context, image_id, value)` removes a `value` from tags for an image with `image_id`.
#. `image_tag_get_all(context, image_id)` returns a list of tags for a specific image.

Image info methods
The next two methods inform a user about his or her ability to modify and view an image. The *image* parameter here is a dictionary representation of an *Image* object.

#. `is_image_mutable(context, image)` informs a user about the possibility to modify an image with the given context. Returns True if the image is mutable in this context.
#. `is_image_visible(context, image, status=None)` informs about the possibility to see the image details with the given context and optionally with a status. Returns True if the image is visible in this context.

**Glance database schema**

.. figure:: ../images/glance_db.png

   The glance database schema is depicted by 5 tables.
   The table named Images has the following columns:
   - id: varchar(36);
   - name: varchar(255), nullable;
   - size: bigint(20), nullable;
   - status: varchar(30);
   - is_public: tinyint(1);
   - created_at: datetime;
   - updated_at: datetime, nullable;
   - deleted_at: datetime, nullable;
   - deleted: tinyint(1);
   - disk_format: varchar(20), nullable;
   - container_format: varchar(20), nullable;
   - checksum: varchar(32), nullable;
   - owner: varchar(255), nullable
   - min_disk: int(11);
   - min_ram: int(11);
   - protected: tinyint(1); and
   - virtual_size: bigint(20), nullable;

   The table named image_locations has the following columns:
   - id: int(11), primary;
   - image_id: varchar(36), refers to column named id in table Images;
   - value: text;
   - created_at: datetime;
   - updated_at: datetime, nullable;
   - deleted_at: datetime, nullable;
   - deleted: tinyint(1);
   - meta_data: text, nullable; and
   - status: varchar(30);.
The table named `image_members` has the following columns:

- `id`: int(11), primary;
- `image_id`: varchar(36), refers to column named `id` in table `Images`;
- `member`: varchar(255);
- `can_share`: tinyint(1);
- `created_at`: datetime;
- `updated_at`: datetime, nullable;
- `deleted_at`: datetime, nullable;
- `deleted`: tinyint(1); and
- `status`: varchar(20).

The table named `image_tags` has the following columns:

- `id`: int(11), primary;
- `image_id`: varchar(36), refers to column named `id` in table `Images`;
- `value`: varchar(255);
- `created_at`: datetime;
- `updated_at`: datetime, nullable;
- `deleted_at`: datetime, nullable; and
- `deleted`: tinyint(1).

The table named `image_properties` has the following columns:

- `id`: int(11), primary;
- `image_id`: varchar(36), refers to column named `id` in table `Images`;
- `name`: varchar(255);
- `value`: text, nullable;
- `created_at`: datetime;
- `updated_at`: datetime, nullable;
- `deleted_at`: datetime, nullable; and
- `deleted`: tinyint(1).

.. centered:: Image 1. Glance images DB schema

Glance Database Backends
~~~~~~~~~~~~~~~~~~~~~~~~

Migration Backends
-------------------

.. list-plugins:: glance.database.migration_backend
   :detailed:

Metadata Backends
------------------

.. list-plugins:: glance.database.metadata_backend
   :detailed:

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Disallowed Minor Code Changes
================================

There are a few types of code changes that have been proposed recently that have been rejected by the Glance team, so we want to point them out and explain our reasoning.

If you feel an exception should be made for some particular change, please put it on the agenda for the Glance weekly meeting so it can be discussed.

Database migration scripts
-----------------------------

Once a database script has been included in a release, spelling or grammar corrections in comments are forbidden unless you are fixing them as a part of another stronger bug on the migration script itself. Modifying migration scripts confuses operators and administrators -- we only want them to notice serious problems. Their preference must take precedence over fixing spell errors.
Typographical errors in comments
--------------------------------

Comments are not user-facing. Correcting minor misspellings or grammatical errors only muddies the history of that part of the code, making `git blame` arguably less useful. So such changes are likely to be rejected. (This prohibition, of course, does not apply to corrections of misleading or unclear comments, or for example, an incorrect reference to a standards document.)

Misspellings in code
-------------------

Misspellings in function names are unlikely to be corrected for the "historical clarity" reasons outlined above for comments. Plus, if a function is named `mispelled()` and a later developer tries to call `misspelled()`, the latter will result in a NameError when it's called, so the later developer will know to use the incorrectly spelled function name.

Misspellings in variable names are more problematic, because if you have a variable named `mispelled` and a later developer puts up a patch where an updated value is assigned to `misspelled`, Python won't complain. The "real" variable won't be updated, and the patch won't have its intended effect.

Whether such a change is allowed will depend upon the age of the code, how widely used the variable is, whether it's spelled correctly in other functions, what the current test coverage is like, and so on. We tend to be very conservative about making changes that could cause regressions. So whether a patch that corrects the spelling of a variable name is accepted is a judgment (or is that "judgement"?) call by reviewers. In proposing your patch, however, be aware that your reviewers will have these concerns in mind.

Tests
-----

Occasionally someone proposes a patch that converts instances of `assertEqual(True, whatever)` to `assertTrue(whatever)`, or instances of `assertEqual(False, w)` to `assertFalse(w)` in tests. Note that these are not type safe changes and they weaken the tests. (See the Python `unittest` docs for details.) We tend to be very conservative about our tests and don't like weakening changes.

We're not saying that such changes can never be made, we're just saying that each change must be accompanied by an explanation of why the weaker test is adequate for what's being tested.

Just to make this a bit clearer it can be shown using the following example, comment out the lines in the runTest method alternatively::
import unittest

class MyTestCase(unittest.TestCase):
    def setUp(self):
        pass

class Tests(MyTestCase):
    def runTest(self):
        self.assertTrue('True')
        self.assertTrue(True)
        self.assertEqual(True, 'True')

To run this use::

    python -m testtools.run test.py

Also mentioned within the unittests documentation_.

.. _documentation: https://docs.python.org/3/library/unittest.html#unittest.TestCase.assertTrue

LOG.warn to LOG.warning

Consistently there are proposed changes that will change all {LOG,logging}.warn to {LOG,logging}.warning across the codebase due to the deprecation in Python 3. While the deprecation is real, Glance uses oslo_log that provides alias warn and solves the issue in single place for all projects using it. These changes are not accepted due to the huge amount of refactoring they cause for no reason.

Glance Release CPL

So you've volunteered to be the Glance Release Cross-Project Liaison (CPL) and now you're worried about what you've gotten yourself into. Well, here are some tips for you from former release CPLs.

You will be doing vital and important work both for Glance and OpenStack. Releases have to be available at the scheduled milestones and RC dates because end users, other OpenStack projects, and packagers rely on releases being available so they can begin their work. Missing a date can have a cascading effect on all the people who are depending on the release being available at its scheduled time. Sounds scary, I know, but you'll also get a lot of satisfaction out of having a key role in keeping OpenStack running smoothly.

Who You Have to Be

================================
You do **not** have to be:

- The PTL
- A core reviewer
- A stable-branch core reviewer/maintainer

You **do** have to be:

- A member of the Glance community
- A person who has signed the OpenStack CLA (or whatever is in use at the time you are reading this)
- Someone familiar with or willing to learn git, gerrit, etc.
- Someone who will be comfortable saying "No" when colleagues want to sneak just one more thing in before a deadline.
- Someone willing to work with the release team on a regular basis and attend their `weekly meeting`_.

Just as the stable maintenance team is responsible for the stability and quality of the stable branches, the release CPL must take on responsibility for the stability and quality of every release artifact of Glance. If you are too lenient with your colleagues, you might be responsible for introducing a catastrophic or destabilizing release. Suppose someone, possibly even the PTL, shows up right before RC1 with a large but probably innocuous change. Even if this passes the gate, you should err on the side of caution and ask to not allow it to merge. (This has happened `before <https://review.openstack.org/#/c/427535/>`_.)

A Release CPL has authority within the Glance project. They have authority through two measures:

- Being the person who volunteered to do this hard work
- Maintaining a healthy relationship with the PTL and their Glance colleagues.

Use this authority to ensure that each Glance release is the best possible. The PTL's job is to lead technical direction, your job is to shepherd cats and help them focus on the priorities for each release.

What This Does Not Grant You

================================
Volunteering to be Release CPL does not give you the right to be a Glance Core Reviewer. That is a separate role that is determined based on the quality of your reviews. You should be primarily motivated by wanting to help the team ship an excellent release.

Get To Know The Release Team
============================

OpenStack has teams for most projects and efforts. In that vein, the release team works on tooling to make releasing projects easier as well as verifying releases. As CPL it is your job to work with this team. At the time of this writing, the team organizes in `#openstack-release` and has a `weekly meeting`_. Idling in their team channel and attending the meeting are two very strongly suggested (if not required) actions for the CPL. You should introduce yourself well in advance of the release deadlines. You should also take the time to research what actions you may need to take in advance of those deadlines as the release team becomes very busy around those deadlines.

Familiarize Yourself with Community Goals
=========================================

Community Goals **are** Glance Goals. They are documented and tracked in the `openstack/governance`_ repository. In Ocata, for example, the CPL assumed the responsibility of monitoring those goals and reporting back to the TC when we completed them.

In my opinion, it makes sense for the Release CPL to perform this task because they are the ones who are keenly aware of the deadlines in the release schedule and can remind the assigned developers of those deadlines.

It also is important for the Release CPL to coordinate with the PTL to ensure that there are project-specific deadlines for the goals. This will ensure the work is completed and reviewed in a timely fashion and hopefully early enough to catch any bugs that shake out of the work.

Familiarize Yourself with the Release Tooling
=============================================

The Release Team has worked to automate much of the release process over the last several development cycles. Much of the tooling is controlled by updating certain YAML files in the `openstack/releases`_ repository.

To release a Glance project, look in the `deliverables` directory for the cycle’s codename, e.g., `pike`, and then look for the project inside of
that. Update that using the appropriate syntax and after the release team has reviewed your request and approved it, the rest will be automated for you.

For more information on release management process and tooling, refer to `release management process guide` and `release management tooling guide`.

Familiarize Yourself with the Bug Tracker
========================================

The `bug tracker` is the best way to determine what items are slated to get in for each particular milestone or cycle release. Use it to the best of its capabilities.

Release Stability and the Gate
==============================

As you may know at this point, OpenStack's Integrated Gate will begin to experience longer queue times and more frequent unrelated failures around milestones and release deadlines (as other projects attempt to sneak things in at the last minute).

You may help your colleagues (and yourself) if you advocate for deadlines on features, etc., at least a week in advance of the actual release deadline. This can apply to all release deadlines (milestone, release candidate, final). If you can stabilize your project prior to the flurry of activity, you will ship a better product. You can also then focus on bug fixing reviews in the interim between your project priorities deadline and the actual release deadline.

Checklist
=========

The release team will set dates for all the milestones for each release. The release schedule can be found from this page: https://releases.openstack.org/index.html

There are checklists to follow for various important release aspects:

Glance Specific Goals
---------------------

While the release team sets dates for community-wide releases, you should work with the PTL to set Glance specific deadlines/events such spec proposal freeze, spec freeze, mid-cycle, bug squash and review squash etc. Also, you can set additional deadlines for Glance priorities to ensure work is on-track for a timely release.
You are also responsible for ensuring PTL and other concerned individuals are aware and reminded of the events/deadlines to ensure timely release.

Milestone Release

The release schedule for the current cycle will give you a range of dates for each milestone release. It is your job to propose the release for Glance sometime during that range and ensure the release is created. This means the following:

- Showing up at meetings to announce the planned date weeks in advance.

  Your colleagues on the Glance team will need at least 4 weeks notice so they can plan and prioritize what work should be included in the milestone.

- Reminding your colleagues what the stated priorities for that milestone were, their progress, etc.

- Being inflexible in the release date. As soon as you pick your date, stick to it. If a feature slips a milestone to the next, it is not the end of the world. It is not ideal, but Glance *needs* to release its milestone as soon as possible.

- Proposing the release in a timely and correct fashion on the day you stated. You may have colleagues try to argue their case to the release team. This is when your collaboration with the PTL will be necessary. The PTL needs to help affirm your decision to release the version of the project you can on the day you decide it.

- Release `glance_store` and `python-glanceclient` at least once per milestone.

- Write `release notes`

Release Candidate Releases

The release candidate release period is similarly scoped to a few days. It is even more important that Glance release during that period. To help your colleagues, try to schedule this release as close to the end of that range as possible. Once RC1 is released, only bugs introduced since the last milestone that are going to compromise the integrity of the release should be merged. Again, your duties include all of the Milestone Release duties plus the following:
- When proposing the release, you need to appropriately configure the release tooling to create a stable branch. If you do not, then you have not appropriately created the release candidate.

- Keeping a *very* watchful eye on what is proposed to and approved for master as well as your new stable branch. Again, automated updates from release tooling and *release critical* bugs are the only things that should be merged to either.

- If release critical bugs are found and fixed, proposing a new release candidate from the SHA on the stable branch.

- Write `release notes`_

- Announce that any non-release-critical changes won't be accepted from this point onwards until the final Glance release is made. Consider adding -2 on such reviews with good description to prevent further updates. This also helps in keeping the gate relatively free to process the release-critical changes.

Final Releases

The release team usually proposes all of the projects' final releases in one patch based off the final release candidate. After those are created, some things in Glance need to be updated immediately.

- Right after cutting the stable branch, Glance release version (not the API version) must be bumped so that all further development is attributed to the next release version. This could be done by adding an empty commit with commit message containing the flag `Sem-Ver: api-break` to indicate a version. Here is a sample commit attempting to `bump the release version`_.
- The migration tooling that Glance uses relies on some constants defined in `glance/db/migration.py`_. Post final release, those need *immediate* updating.

Acknowledgements

This document was originally written by Ian Cordasco. It's maintained and revised by the Glance Release CPLs:

- Ian Cordasco, Release CPL for Ocata
- Hemanth Makkapati, Release CPL for Pike

.. links
Basic architecture

OpenStack Glance has a client-server architecture that provides a REST API to the user through which requests to the server can be performed.

A Glance Domain Controller manages the internal server operations that is divided into layers. Specific tasks are implemented by each layer.

All the file (Image data) operations are performed using
glance_store library, which is responsible for interaction with external storage back ends and (or) local filesystem(s). The glance_store library provides a uniform interface to access the backend stores.

Glance uses a central database (Glance DB) that is shared amongst all the components in the system and is sql-based by default. Other types of database backends are somewhat supported and used by operators but are not extensively tested upstream.

.. figure:: ../images/architecture.png
   :figwidth: 100%
   :align: center
   Consists of 5 main blocks: "Client" "Glance" "Keystone" "Glance Store" and "Supported Storages".
   Glance block exposes a REST API. The REST API makes use of the AuthZ Middleware and a Glance Domain Controller, which contains Auth, Notifier, Policy, Quota, Location and DB. The Glance Domain Controller makes use of the Glance Store (which is external to the Glance block), and (still within the Glance block) it makes use of the Database Abstraction Layer, and (optionally) the Registry Layer. The Registry Layer makes use of the Database Abstraction Layer. The Database abstraction layer exclusively makes use of the Glance Database.
   The Client block makes use of the Rest API (which exists in the Glance block) and the Keystone block.
   The Glance Store block contains AuthN which makes use of the Keystone block, and it also contains Glance Store Drivers, which exclusively makes use of each of the storage systems in the Supported Storages block. Within the Supported Storages block, there exist the following storage systems, none of which make use of anything else: Filesystem, Swift, Ceph, "ellipses", Sheepdog. A complete list is given by the currently available drivers in glance_store/_drivers.

.. centered:: Image 1. OpenStack Glance Architecture

Following components are present in the Glance architecture:

* **A client** - any application that makes use of a Glance server.

* **REST API** - Glance functionalities are exposed via REST.

* **Database Abstraction Layer (DAL)** - an application programming interface (API) that unifies the communication between Glance and databases.

* **Glance Domain Controller** - middleware that implements the main Glance functionalities such as authorization, notifications, policies,
database connections.

**Glance Store** - used to organize interactions between Glance and various data stores.

**Registry Layer** - optional layer that is used to organise secure communication between the domain and the DAL by using a separate service.

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Writing Database Migrations for Zero-Downtime Upgrades

Beginning in Ocata, OpenStack Glance uses Alembic, which replaced SQLAlchemy Migrate as the database migration engine. Moving to Alembic is particularly motivated by the zero-downtime upgrade work. Refer to [GSPEC1] and [GSPEC2] for more information on zero-downtime upgrades in Glance and why a move to Alembic was deemed necessary.

Stop right now and go read [GSPEC1] and [GSPEC2] if you haven't done so already. Those documents explain the strategy Glance has approved for database migrations, and we expect you to be familiar with them in what follows. This document focuses on the "how", but unless you understand the "what" and "why", you'll be wasting your time reading this document.

Prior to Ocata, database migrations were conceived as monoliths. Thus, they did not need to carefully distinguish and manage database schema expansions, data migrations, or database schema contractions. The modern database migrations are more sensitive to the characteristics of changes being attempted and thus we clearly identify three phases of a database migration: (1) expand, (2) migrate, and (3) contract. A developer modifying the Glance database must supply a script for each of these phases.

Here's a quick reminder of what each phase entails. For more information, see [GSPEC1].
Expand

Expand migrations MUST be additive in nature. Expand migrations should be seen as the minimal set of schema changes required by the new services that can be applied while the old services are still running. Expand migrations should optionally include temporary database triggers that keep the old and new columns in sync. If a database change needs data to be migrated between columns, then temporary database triggers are required to keep the columns in sync while the data migrations are in-flight.

.. note::

Sometimes there could be an exception to the additive-only change strategy for expand phase. It is described more elaborately in [GSPEC1]_. Again, consider this as a last reminder to read [GSPEC1]_, if you haven't already done so.

Migrate

Data migrations MUST NOT attempt any schema changes and only move existing data between old and new columns such that new services can start consuming the new tables and/or columns introduced by the expand migrations.

Contract

Contract migrations usually include the remaining schema changes required by the new services that couldn't be applied during expand phase due to their incompatible nature with the old services. Any temporary database triggers added during the expand migrations MUST be dropped with contract migrations.

Alembic Migrations

As mentioned earlier, starting in Ocata Glance database migrations must be written for Alembic. All existing Glance migrations have been ported to Alembic. They can be found here [GMIGS1]_.

Schema Migrations (Expand/Contract)

* All Glance schema migrations must reside in `glance.db.sqlalchemy.alembic_migrations.versions` package

* Every Glance schema migration must be a python module with the following structure

  .. code::

    """<docstring describing the migration>"""
Revision ID: <unique revision id>
Revises: <parent revision id>

...<your imports here>

revision = <unique revision id>
down_revision = <parent revision id>
depends_on = <id of dependent revision or None>

def upgrade():
    <your schema changes here>

Identifiers `revision`, `down_revision` and `depends_on` are elaborated below.

* The `revision` identifier is a unique revision id for every migration.
  It must conform to one of the following naming schemes.

  All monolith migrations must conform to:

  .. code::

    <release name><two-digit sequence number per release>

  And, all expand/contract migrations must conform to:

  .. code::

    <release name>_[expand|contract]<two-digit sequence number per release>

Example:

.. code::

  Monolith migration: ocata01
  Expand migration: ocata_expand01
  Contract migration: ocata_contract01

This name convention is devised with an intention to easily understand the migration sequence. While the `<release name>` mentions the release a migration belongs to, the `<two-digit sequence number per release>` helps identify the order of migrations within each release. For modern migrations, the `[expand|contract]` part of the revision id helps identify the revision branch a migration belongs to.
* The ``down_revision`` identifier MUST be specified for all Alembic migration scripts. It points to the previous migration (or ``revision`` in Alembic lingo) on which the current migration is based. This essentially establishes a migration sequence very much like a singly linked list would (except that we use a ``previous`` link here instead of the more traditional ``next`` link.)

The very first migration, ``liberty`` in our case, would have ``down_revision`` set to ``None``. All other migrations must point to the last migration in the sequence at the time of writing the migration.

For example, Glance has two migrations in Mitaka, namely, ``mitaka01`` and ``mitaka02``. The migration sequence for Mitaka should look like:

```
liberty
  ^
  |
  |
mitaka01
  ^
  |
  |
mitaka02
```

* The ``depends_on`` identifier helps establish dependencies between two migrations. If a migration ``X`` depends on running migration ``Y`` first, then ``X`` is said to depend on ``Y``. This could be specified in the migration as shown below:

```
revision = 'X'
down_revision = 'W'
depends_on = 'Y'
```

Naturally, every migration depends on the migrations preceding it in the migration sequence. Hence, in a typical branch-less migration sequence, ``depends_on`` is of limited use. However, this could be useful for migration sequences with branches. We'll see more about this in the next section.

* All schema migration scripts must adhere to the naming convention mentioned below:

```
.. code::

  lib...
  |
  |
  mita...
  |
  |
  mita...
```

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10429
Dependency Between Contract and Expand Migrations

* To achieve zero-downtime upgrades, the Glance migration sequence has been branched into "expand" and "contract" branches. As the name suggests, the "expand" branch contains only the expand migrations and the "contract" branch contains only the contract migrations. As per the zero-downtime migration strategy, the expand migrations are run first followed by contract migrations. To establish this dependency, we make the contract migrations explicitly depend on their corresponding expand migrations. Thus, running contract migrations without running expansions is not possible.

For example, the Community Images migration in Ocata includes the experimental E-M-C migrations. The expand migration is "ocata_expand01" and the contract migration is "ocata_contract01". The dependency is established as below.

```python
revision = 'ocata_contract01'
down_revision = 'mitaka02'
depends_on = 'ocata_expand01'
```

Every contract migration in Glance MUST depend on its corresponding expand migration. Thus, the current Glance migration sequence looks as shown below:

```python
liberty
  ^
  |
  |
mitaka01
  ^
```
Data Migrations

* All Glance data migrations must reside in `glance.db.sqlalchemy.alembic_migrations.data_migrations` package.

* The data migrations themselves are not Alembic migration scripts. And, hence they don't require a unique revision id. However, they must adhere to a similar naming convention discussed above. That is:

  .. code::

    <release name>_migrate<two-digit sequence number per release>_<very brief description>.py

Example:

  .. code::

    Data Migration: ocata_migrate01_community_images.py

* All data migrations modules must adhere to the following structure:

  .. code::

    def has_migrations(engine):
        <your code to determine whether or not there are any pending rows to be migrated>
        return <boolean>

    def migrate(engine):
        <your code to migrate rows in the database.>
        return <number of rows migrated>
NOTES
-----

* In Ocata and Pike, Glance required every database migration to include both monolithic and Expand-Migrate-Contract (E-M-C) style migrations. In Queens, E-M-C migrations became the default and a monolithic migration script is no longer required.

In Queens, the glance-manage tool was refactored so that the ``glance-manage db sync`` command runs the expand, migrate, and contract scripts "under the hood". From the viewpoint of the operator, there is no difference between having a single monolithic script and having three scripts.

Since we are using the same scripts for offline and online (zero-downtime) database upgrades, as a developer you have to pay attention in your scripts to determine whether you need to add/remove triggers in the expand/contract scripts. See the changes to the ocata scripts in https://review.openstack.org/#/c/544792/ for an example of how to do this.

* Alembic is a database migration engine written for SQLAlchemy. So, any migration script written for SQLAlchemy Migrate should work with Alembic as well provided the structural differences above (primarily adding ``revision``, ``down_revision`` and ``depends_on``) are taken care of. Moreover, it maybe easier to do certain operations with Alembic. Refer to [ALMBC]_ for information on Alembic operations.

* A given database change may not require actions in each of the expand, migrate, contract phases, but nonetheless, we require a script for *each* phase for *every* change. In the case where an action is not required, a ``no-op`` script, described below, MUST be used.

For instance, if a database migration is completely contractive in nature, say removing a column, there won't be a need for expand and migrate operations. But, including a ``no-op`` expand and migrate scripts will make it explicit and also preserve the one-to-one correspondence between expand, migrate and contract scripts.

A no-op expand/contract Alembic migration:

```python

Revision ID: foo02
Revises: foo01
```

An example empty Alembic migration script
revision = foo02
down_revision = foo01

def upgrade():
    pass

A no-op migrate script:

.. code::

    """An example empty data migration script""

def has_migrations(engine):
    return False

def migrate(engine):
    return 0

References
==========
.. [GSPEC1] `Database Strategy for Rolling Upgrades`
.. [GSPEC2] `Glance Alembic Migrations Spec`
.. [GMIGS1] `Glance Alembic Migrations Implementation`
    <http://git.openstack.org/cgit/openstack/glance/tree/glance/db/sqlalchemy/alembic_migrations/versions>

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1.328 openstack-heat-ui 1.0.3
:0.20180301084421.66d3844.el7ost
1.328.1 Available under license :

 ==================
 How to Contribute

 ==================

 Contributor License Agreement

 =============================

 .. index::
 single: license; agreement
In order to contribute to the Heat Dashboard project, you need to have signed OpenStack's contributor's agreement.

.. seealso::

   * http://docs.openstack.org/infra/manual/developers.html
   * http://wiki.openstack.org/CLA

LaunchPad Project
-----------------

Most of the tools used for OpenStack depend on a launchpad.net ID for authentication.

.. seealso::

   * https://launchpad.net
   * https://launchpad.net/heat-dashboard

Project Hosting Details
------------------------

Bug tracker

http://launchpad.net/heat-dashboard

Code Hosting

https://git.openstack.org/cgit/openstack/heat-dashboard

Code Review

https://review.openstack.org/#/q/status:open+project:openstack/heat-dashboard,n,z

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1.329 openstack-ironic-ui 3.1.2 :1.el7ost
1.329.1 Available under license :

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LaunchPad Project

Open Source Used In Virtualized Infrastructure Manager 3.4.0
10445
Most of the tools used for OpenStack depend on a launchpad.net ID for authentication.

.. seealso::

   * https://launchpad.net
   * https://launchpad.net/ironic-ui

Project Hosting Details
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Bug tracker
   http://launchpad.net/ironic-ui

Mailing list (prefix subjects with `[ironic-ui]` for faster responses)
   http://lists.openstack.org/cgi-bin/mailman/listinfo/openstack-dev

Code Hosting
   https://git.openstack.org/cgit/openstack/ironic-ui

Code Review
   https://review.openstack.org/#/q/status:open+project:openstack/ironic-ui,n,z

Contributing to Ironic UI
-------------------------

If you're interested in contributing to the Ironic UI project, the following will help get you started.

.. toctree::
   :maxdepth: 1

   contributing

Autogenerated API Documentation
-------------------------------

.. toctree::
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   api/autoindex

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1.330 openstack-neutron-fwaas 12.0.1
:1.el7ost

1.330.1 Available under license :

FireWall as a Service V2

The `FireWall as a Service API V2 <https://specs.openstack.org/openstack/neutron-specs/specs/newton/fwaas-api-2.0.html>`_ specification lists the changes that together compose FWaaS V2. These changes are not fully implemented.

Module Reference

.. toctree::
:maxdepth: 1
:glob:

api/*
Contributing to neutron-fwaas

If you would like to contribute to the development of OpenStack, you must follow the steps documented at:
https://docs.openstack.org/infra/manual/developers.html

Once those steps have been completed, changes to OpenStack should be submitted for review via the Gerrit tool, following the workflow documented at:
https://docs.openstack.org/infra/manual/developers.html#development-workflow

Pull requests submitted through GitHub will be ignored.

Bugs should be filed on Launchpad in the 'neutron' project:
https://bugs.launchpad.net/neutron

To get in touch with the neutron-fwaas community, look at the following resources:
- Join the #openstack-fwaas IRC channel on Freenode. This is where the FireWall-as-a-Service team is available for discussion.
- Join the ’FireWall-as-a-Service weekly IRC meeting <http://eavesdrop.openstack.org/#Firewall_as_a_Service_(FWaaS)_Team_Meeting>’ where the status of new initiatives and bugs is discussed.

These are a great places to get recommendations on where to start contributing to neutron-fwaas.

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1.332 openstack-panko 4.0.2 :1.el7ost

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```
--
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```

Running the Tests

Panko includes an extensive set of automated unit tests which are run through tox.

1. Install `tox`: 

$ sudo pip install tox

2. On Ubuntu install `mongod` and `libmysqlclient-dev` packages::

   $ sudo apt-get install mongodb
   $ sudo apt-get install libmysqlclient-dev

   For Fedora20 there is no `libmysqlclient-dev` package, so you'll need to install `mariadb-devel.x86-64` (or `mariadb-devel.i386`) instead::

   $ sudo yum install mongodb
   $ sudo yum install mariadb-devel.x86_64

3. Install the test dependencies::

   $ sudo pip install -r /opt/stack/panko/test-requirements.txt

4. Run the unit and code-style tests::

   $ cd /opt/stack/panko
   $ tox -e py27,pep8

   As tox is a wrapper around testr, it also accepts the same flags as testr. See the `testr documentation` for details about these additional flags.

   .. _testr documentation: https://testrepository.readthedocs.org/en/latest/MANUAL.html

   Use a double hyphen to pass options to testr. For example, to run only tests under tests/api/v2::

   $ tox -e py27 -- api.v2

   To debug tests (ie. break into pdb debugger), you can use "debug" tox environment. Here's an example, passing the name of a test since you'll normally only want to run the test that hits your breakpoint::

   $ tox -e debug panko.tests.test_bin

   For reference, the "debug" tox environment implements the instructions here: https://wiki.openstack.org/wiki/Testr#Debugging_.28pdb.29_Tests

5. There is a growing suite of tests which use a tool called `gabbi` to test and validate the behavior of the Panko API. These tests are run when using the usual `py27` tox target but if desired they can be run by themselves::

   $ tox -e gabbi
The YAML files used to drive the gabbi tests can be found in `panko/tests/functional/gabbi/gabbits` If you are adding to or adjusting the API you should consider adding tests here.

.. _gabbi: https://gabbi.readthedocs.org/

.. seealso::

  * tox_

.. _tox: http://tox.testrun.org/latest/

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Guru Meditation Reports

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Panko contains a mechanism whereby developers and system administrators can generate a report about the state of a running Panko executable. This report is called a *Guru Meditation Report* (*GMR* for short).

Generating a GMR

-----------

A *GMR* can be generated by sending the *USR1* signal to any Panko process with support (see below). The *GMR* will then be outputted standard error for that particular process.

For example, suppose that `panko-api` has process id `8675`, and was run with `>/var/log/panko/panko-api.log`. Then, `kill -USR1 8675` will trigger the Guru Meditation report to be printed to `>/var/log/panko/panko-api.log`.

Structure of a GMR

-----------

The *GMR* is designed to be extensible; any particular executable may add its own sections. However, the base *GMR* consists of several sections:

Package
Shows information about the package to which this process belongs, including version information

Threads
Shows stack traces and thread ids for each of the threads within this process

Green Threads
Shows stack traces for each of the green threads within this process (green threads don't have thread ids)

Configuration
Lists all the configuration options currently accessible via the CONF object for the current process

Adding Support for GMRs to New Executables
------------------------------------------

Adding support for a *GMR* to a given executable is fairly easy.

First import the module (currently residing in oslo-incubator), as well as the Panko version module:

```
from oslo_reports import guru_meditation_report as gmr
from panko import version
```

Then, register any additional sections (optional):

```
TextGuruMeditation.register_section('Some Special Section', some_section_generator)
```

Finally (under main), before running the "main loop" of the executable (usually `service.server(server)` or something similar), register the *GMR* hook:

```
TextGuruMeditation.setup_autorun(version)
```

Extending the GMR
-----------------
As mentioned above, additional sections can be added to the GMR for a particular executable. For more information, see the inline documentation about oslo.reports:

`oslo.reports <https://docs.openstack.org/oslo.reports/latest/>`

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.. _here: https://wiki.openstack.org/wiki/Gerrit_Workflow

Project Hosting Details

:Bug tracker: https://bugs.launchpad.net/panko
:Wiki: https://wiki.openstack.org/wiki/Panko
:Code Hosting: https://git.openstack.org/cgit/openstack/panko/
:Code Review: https://review.openstack.org/#/q/status:open+project:openstack/panko,n,z

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1.347 pcre 8.32 :17.el7

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1989
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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\nModule-Build mailing list at <module-build@perl.org>.'"
built_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
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  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

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#

# Create test distribution
#---------------------------------------------------------------#
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);
When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---

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Petr Pisar: Ported to 5.16.3

---

hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 ++++++++++++++++++++++++++++++++++
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);

 ENTER;
+SAVEFREESV(hv);
+
 while (hv_max && hv_max + 1 >= hv_fill * 2)
  hv_max = hv_max / 2;
 HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
}
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}
    hv_magic(hv, NULL, PERL_MAGIC_hints);
    return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
    Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
    return NULL;
+
+    /* Do this here, otherwise we leak the new SV if this croaks. */
+    SvGETMAGIC(old);
+    new_SV(sv);
-    /* SV_NOSTEAL is the default for sv_setv()
-       SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+    /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
       with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
     or skip_all("XS::APItest not available");
 }
@@ -176,3 +176,23 @@ leak(2, 0, sub {
       each %$h;
     undef $h;
-      'tied hash iteration does not leak');
+
+      #=> [perl #107000]
+      package hhtie {

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
       each %$h;
     undef $h;
-      'tied hash iteration does not leak');
+
+      #=> [perl #107000]
+      package hhtie {


+    sub TIEHASH { bless [] } 
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] } 
+    sub FETCH    { die if $explosive; $_[0][0]{$_[1]} } 
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} } 
+    sub NEXTKEY  { each %{$_[0][0]} } 
+
+    leak(2,!!$Config{mad}, sub {
+        eval q`
+        BEGIN {
+            $hhtie::explosive = 0;
+            tie %^H, hhtie;
+            $^H{foo} = bar;
+            $hhtie::explosive = 1;
+        }
+        { 1; }
+        `;
+    }, 'hint-hash copying does not leak');
+    --
+    1.8.1.4

1.350 perl-Carp 1.26 :244.el7

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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1.356 perl-DBI 1.627 :4.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

1.360 perl-File-Path 2.09 :2.el7

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

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1.361 perl-File-Temp 0.23.01 :3.el7

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1.362 perl-Filter 1.49 :3.el7

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1.364 perl-HTTP-Tiny 0.033 :3.el7

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attach them to the start of each source file to most effectively convey
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Gnomovision version 69, Copyright (C) 19xx name of author
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<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

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Whether this is true is especially significant if the work can be
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functions (ten lines or less in length), then the use of the object
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.373 perl-Pod-Usage 1.63 :3.el7

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

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1.374 perl-podlators 2.5.1 :3.el7

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

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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

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

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

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1.382 perl-threads 1.87 :4.el7

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

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Julian Seward, jseward@bzip.org
bzip2/libbzzip2 version 1.0.6 of 6 September 2010

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1.391 polkit 0.112 :18.el7_6.1

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1.393 popt 1.13 :16.el7
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1.394 postfix 2.10.1 :7.el7
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1.395 postgresql 9.2.24 :1.el7_5

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```diff
diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011
**************
*** 2,10 ****
# Makefile
#
# ! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
# ! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
***************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core
```

Open Source Used In Virtualized Infrastructure Manager 3.4.0

10871
! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin

diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
***************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ **************************************************************************

This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
***************
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDET_PG_VERSION"1.1"
+ /* profile types */
+ #definePRO_SPECIAL/* special case */
+ #definePRO_BOOL2/* boolean */
***************
*** 99,106 ****
--- 101,113 ----
#defineSTDIN3/* use stdin */
#defineKEY4/* type (keyword) */

+ #defineKEY_FILE5/* only used for args */
+ #define VERSION6/* only used for args */
+
+ char *option_source = "?";
+
+ void add_typedefs_from_file(char *str);
+
/*
 * N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp

***************
*** 118,123 ****
--- 125,136 ----
"T", PRO_SPECIAL, 0, KEY, 0
 },
+ "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ {
+ "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ {
"bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
 },
+ ***************
*** 425,430 ****
--- 438,456 ----
break;
+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+ +
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+ +
default:
fprintf(stderr, "\nindent: set_option: internal error: p_special %d\n", p->p_special);
***************
*** 459,461 ****
--- 485,508 ----
exit(1);
}
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, " \
")) = '\0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }

diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
--- bsd_indent/indent_globs.h	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h	Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
 scomf,/* Same line comment font */
 bodyf,/* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
 int  last_token;
--- 239,249 ----
 scomf,/* Same line comment font */
 bodyf,/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
!
! #define STACK_SIZE 1000

EXTERN struct parser_state {
 int  last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
```c
struct templ specials[1000] =
{
    {"switch", 1},
    {"case", 2},
};

struct templ specials[16384] =
{
    {"switch", 1},
    {"case", 2},
};

else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    return; /* For now, table overflows are silently ignored */
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
    return;
else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    fprintf(stderr, "indent: typedef table overflow\n");
    exit(1);
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
```
}/*/ end of switch */

+ if (ps.tos >= STACK_SIZE) { 
+     fprintf(stderr, "indent: stack size overflow\n"); 
+     exit(1); 
+ } 
+ reduce();/* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.cWed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.cMon Nov 14 19:30:24 2005
***************
*** 148,154 ****
  ps.box_com = true;
  ps.com_col = 1;
} else {
!     if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
!         ps.box_com = true; /* a comment with a '-', '*',
*         or newline immediately
*         after the start comment is
--- 148,158 ----
  ps.box_com = true;
  ps.com_col = 1;
} else {
!     /*
!     * Don't process '\n' or every comment is treated as a
!     * block comment, meaning there is no wrapping.
!     */
!     if (*buf_ptr == '-' || *buf_ptr == '\n') {
ps.box_com = true; /* a comment with a '-', '
* or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '\t'); 
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
*/
+ if (s_com == e_com) {
+     *e_com++ = ' ' /* add blanks for continuation */
+     *e_com++ = ' ';
+     *e_com++ = ' ';
+     now_col += 3;
+ } } else
if (++buf_ptr >= buf_end)
fill_buffer();

Only in pg_bsd_indent: pr_comment.o
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Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stderr.
> but the application can override this behavior by supplying its own handling function.

> For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

> The function <CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE> sets or examines the current notice receiver for a connection object. Similarly, <CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE> sets or examines the current notice processor.

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.
When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` in `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or the complete preformatted message using `PQresultErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`. (This pointer can be used to access application-specific state if needed.)
The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

---

Open Source Used In Virtualized Infrastructure Manager 3.4.0

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PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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This patch contains several fixes to NetBSD's indent and should be applied before using pgindent.

Index: README
===================================================================
--- README 9 Apr 1993 12:59:06 -0000
+++ README 15 Nov 2005 00:25:43 -0000
***************
--- 1,3 ****
+++ 1,13 ----
+
This patch is from NetBSD current, 2005-11-14. It contains all the
patches need for its use in PostgreSQL.

+ bjm

+ -----------------------------------------------

This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs

---

Index: indent_globs.h
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/indent_globs.h,v
retrieving revision 1.8
diff -c -r1.8 indent_globs.h
*** indent_globs.h7 Aug 2003 11:14:08 -00001.8
--- indent_globs.h15 Nov 2005 00:25:44 -0000
**************
*** 239,245 ****
 scomf,/* Same line comment font */
 bodyf,/* major body font */


 ! #define STACK_SIZE 150

EXTERN struct parser_state {
  int last_token;
--- 239,249 ----
  scomf,/* Same line comment font */
 bodyf,/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
  int last_token;
Index: lexi.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/lexi.c,v
retrieving revision 1.12
diff -c -r1.12 lexi.c
--- lexi.c15 Nov 2005 00:25:44 -0000
***************

---
struct templ specials[1000] =
{
    "switch", 1,
    "case", 2,
};

struct templ specials[16384] =
{
    "switch", 1,
    "case", 2,
};

else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    return;/* For now, table overflows are silently
    ignored */
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
    return;
else
    p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    exit(1);
    fprintf(stderr, "indent: typedef table overflow\n");
    exit(1);
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
Index: parse.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/parse.c,v
retrieving revision 1.7
diff -c -r1.7 parse.c
*** parse.c7 Aug 2003 11:14:09 -00001.7
--- parse.c15 Nov 2005 00:25:44 -0000
***************
*** 231,236 ****
--- 231,241 ----
+ if (ps.tos >= STACK_SIZE) {
+   fprintf(stderr, "indent: stack size overflow\n");
+   exit(1);
+ }
+ reduce();/* see if any reduction can be done */

#ifdef debug
Index: pr_comment.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/pr_comment.c,v
retrieving revision 1.9
diff -c -r1.9 pr_comment.c
*** pr_comment.c7 Aug 2003 11:14:09 -0000 -00001.9
--- pr_comment.c15 Nov 2005 00:25:44 -0000
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '	');
+ /* If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+    *e_com++ = ' ';/* add blanks for continuation */
+    *e_com++ = ' ';
+    *e_com++ = ' ';
+    now_col += 3;
+ }
} else
if (++buf_ptr >= buf_end)
fill_buffer();


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NAME="LIBPQ-NOTICE-PROCESSING"

30.11. Notice Processing

Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver` sets or examines the current notice receiver for a connection object. Similarly, `PQsetNoticeProcessor` sets or examines the current notice processor for a connection object.
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Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by the notice receiver function is called. It is passed the message in the form of a **PGRES_NONFATAL_ERROR**. (This allows the receiver to extract individual fields using **PQresultErrorField**), or the complete preformatted message using **PQresult**.
The same void pointer passed to PQsetNoticeReceiver is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using PQresultErrorMessage) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to PQsetNoticeProcessor. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```c
static void defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the PGconn object or PGresult objects made.
from it exist. At creation of a `<TT CLASS="STRUCTNAME">PGresult</TT>`,
the `<TT CLASS="STRUCTNAME">PGconn</TT>`'s current notice handling pointers are copied
into the `<TT CLASS="STRUCTNAME">PGresult</TT>`
for possible use by functions like
`<CODE CLASS="FUNCTION">PQgetvalue</CODE>`.
</P>
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</DIV>

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<TD WIDTH="34%" ALIGN="center" VALIGN="top">
<A HREF="index.html" ACCESSKEY="H">Home</A></TD>
<TD>
</TD>
</TR>
</TABLE>
</DIV>
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(formerly known as Postgres, then as Postgres95)

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Because of this blurred distinction, using the ordinary General
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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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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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from pykickstart.base import KickstartCommand
from pykickstart.errors import KickstartValueError, formatErrorMsg
from pykickstart.options import KSOptionParser

import gettext
_ = lambda x: gettext.ldgettext("pykickstart", x)

class F20_Eula(KickstartCommand):
    """The 'eula' kickstart command"""

    def __init__(self, *args, **kwargs):
        KickstartCommand.__init__(self, *args, **kwargs)
        self.op = self._getParser()
        self.agreed = kwargs.get("agreed", False)

    def __str__(self):
        retval = KickstartCommand.__str__(self)
        if self.agreed:
            retval += "# License agreement\n"
            retval += "eula %s\n" % self._getArgsAsStr()

        return retval

    def _getArgsAsStr(self):
        if self.agreed:
            return "--agreed"
        else:
            return ""

    def _getParser(self):
        op = KSOptionParser()
        # people would struggle remembering the exact word
        op.add_option("--agreed", "--agree", "--accepted", "--accept",
                      dest="agreed", action="store_true", default=False)

        return op

    def parse(self, args):
        (opts, extra) = self.op.parse_args(args=args, lineno=self.lineno)
        self._setToSelf(self.op, opts)

        if len(extra) != 0:
            raise KickstartValueError(formatErrorMsg(self.lineno, msg=_("Kickstart command %s does not take any arguments")) % "eula")
if not self.agreed:
    raise KickstartValueError(formatErrorMsg(self.lineno, msg=_('Kickstart command eula expects the --agreed option')))

    return self
#
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#
import unittest
from tests.baseclass import *
from pykickstart.errors import *
from pykickstart.commands.eula import *

class F20_TestCase(CommandTest):
    command = "eula"

def runTest(self):
    # pass
    self.assert_parse("eula --agreed", "eula --agreed\n")
    self.assert_parse("eula --agree", "eula --agreed\n")
    self.assert_parse("eula --accepted", "eula --agreed\n")
    self.assert_parse("eula --accept", "eula --agreed\n")

    # fail
    self.assert_parse_error("eula", KickstartValueError)
    self.assert_parse_error("eula arg1", KickstartValueError)

    if __name__ == "__main__":
        unittest.main()
1.403 pyliblzma 0.5.3 :11.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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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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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.
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Execution tracing

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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

XML Remote Procedure Calls

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

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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.

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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1.419 python-beautifulsoup4 4.6.0 :1.el7ost

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1.422 python-cachetools 2.0.1 :3.el7ost

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1.423 python-castellan 0.17.0 :1.el7ost

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=======
Testing
=======

Every Castellan code submission is automatically tested against a number of gating jobs to prevent regressions. Castellan developers should have a habit of running tests locally to ensure the code works as intended before submission.

For your convenience we provide the ability to run all tests through the `tox` utility. If you are unfamiliar with tox please see refer to the `tox documentation` for assistance.

.. `tox documentation`: https://tox.readthedocs.org/en/latest/

Unit Tests

----------
Currently, we provide tox environments for a variety of different Python versions. By default all available test environments within the tox configuration will execute when calling `tox`. If you want to run an independent version, you can do so with the following command:

```bash
# Executes tests on Python 2.7
$ tox -e py27
```

**Note:**

Other available environments are py35, pypy and pep8.

If you do not have the appropriate Python versions available, consider setting up PyEnv to install multiple versions of Python. See the documentation regarding `Setting up a Barbican development environment` for more information.

**Functional Tests**

Unlike running unit tests, the functional tests require Barbican and Keystone services to be running in order to execute. For more information on this please see `Setting up a Barbican development environment` and `Using Keystone Middleware with Barbican`.

Castellan uses either `~/etc/castellan/castellan-functional.conf` or `./etc/castellan/castellan-functional.conf` in order to run functional tests. A sample file can be generated by running:

```bash
# Generate a sample configuration file
$ tox -e genconfig
```

```
`~/castellan/etc/castellan/castellan-functional.conf.sample` is generated.
It must be renamed to `castellan-functional.conf` and placed in `~/etc/castellan` or `./etc/castellan`.

The file should look something like the following:

```bash
[DEFAULT]
```
[identity]
username = 'admin'
password = 'openstack'
project_name = 'admin'
auth_url = 'http://localhost/identity/v3'

Once you have the appropriate services running and configured you can execute the functional tests through tox.

.. code-block:: bash

    # Execute Barbican Functional Tests
    $ tox -e functional

By default, the functional tox job will use `testr` to execute the functional tests.

Debugging
---------

In order to be able to debug code in Castellan, you must use the Python Debugger. This can be done by adding `import pdb; pdb.set_trace()` to set the breakpoint. Then run the following command to hit the breakpoint:

.. code-block:: bash

    # hit the pdb breakpoint
    $ tox -e debug

Once in the Python Debugger, you can use the commands as stated in the `Debugger Commands` section here: https://docs.python.org/2/library/pdb.html

Pep8 Check
----------

Pep8 is a style guide for Python code. Castellan code should be have proper style before submission. In order to ensure that pep8 tests can be run through tox as follows:

.. code-block:: bash

    # Checks python code style
    $ tox -e pep8

Any comments on bad coding style will output to the terminal.
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1.425 python-cffi 1.11.2 :2.el7ost

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1.426 python-chardet 2.2.1 :1.el7_1

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1.428 python-cherrypy 3.2.2 :4.el7
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CINDERCLIENT Tests

Unit Tests

Cinderclient contains a suite of unit tests, in the cinderclient/tests/unit directory.

Any proposed code change will be automatically rejected by the OpenStack Jenkins server if the change causes unit test failures.

Running the tests

There are a number of ways to run unit tests currently, and there's a combination of frameworks used depending on what commands you use. The preferred method is to use tox, which calls ostestr via the tox.ini file. To run all tests simply run:

```
tox
```

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox

One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test:

```
tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes.VolumesTest.test_attach
```

Or all tests in the test_volumes.py file:

```
tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes
```

For more information on these options and how to run tests, please see the `ostestr documentation <https://docs.openstack.org/os-testr/latest/>`_.

---

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Run tests wrapper script

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

In addition you can also use the wrapper script run_tests.sh by simply executing::

    ./run_tests.sh

This script is a wrapper around the testr testrunner and the flake8 checker.
Note that there has been talk around deprecating this wrapper and this method of testing, it's currently available still but it may be good to get used to using tox or even ostestr directly.

Documentation is left in place for those that still use it.

Flags
-----

The `run_tests.sh` script supports several flags. You can view a list of flags by doing::

    run_tests.sh -h

This will show the following help information::

Usage: ./run_tests.sh [OPTION]...
Run cinderclient's test suite(s)

- -v, --virtual-env           Always use virtualenv. Install automatically if not present
- -N, --no-virtual-env        Don't use virtualenv. Run tests in local environment
- -s, --no-site-packages      Isolate the virtualenv from the global Python environment
- -r, --recreate-db           Recreate the test database (deprecated, as this is now the default).
- -n, --no-recreate-db        Don't recreate the test database.
- -f, --force                 Force a clean re-build of the virtual environment. Useful when dependencies have been added.
- -u, --update                Update the virtual environment with any newer package versions
- -p, --pep8                  Just run PEP8 and HACKING compliance check
- -P, --no-pep8               Don't run static code checks
- -c, --coverage              Generate coverage report
- -d, --debug                 Run tests with testtools instead of testr. This allows you to use the debugger.
- -h, --help                  Print this usage message
--hide-elapsed              Don't print the elapsed time for each test along with slow test list
--virtual-env-path <path>   Location of the virtualenv directory
    Default: $(pwd)
--virtual-env-name <name>   Name of the virtualenv directory
    Default: .venv
--tools-path <dir>          Location of the tools directory
    Default: $(pwd)
Note: with no options specified, the script will try to run the tests in a virtual environment. If no virtualenv is found, the script will ask if you would like to create one. If you prefer to run tests NOT in a virtual environment, simply pass the -N option.

Because `run_tests.sh` is a wrapper around testr, it also accepts the same flags as testr. See the documentation for details about these additional flags: `os-testr documentation <https://docs.openstack.org/os-testr/latest/>`_.

.. _nose options documentation: http://readthedocs.org/docs/nose/en/latest/usage.html#options

Suppressing logging output when tests fail
------------------------------------------

By default, when one or more unit test fails, all of the data sent to the logger during the failed tests will appear on standard output, which typically consists of many lines of texts. The logging output can make it difficult to identify which specific tests have failed, unless your terminal has a large scrollback buffer or you have redirected output to a file.

You can suppress the logging output by calling `run_tests.sh` with the nose flag::

    --nologcapture

Virtualenv
----------

By default, the tests use the Python packages installed inside a virtualenv. (This is equivalent to using the `-V, --virtualenv` flag). If the virtualenv does not exist, it will be created the first time the tests are run.

If you wish to recreate the virtualenv, call `run_tests.sh` with the flag::

    -f, --force

Recreating the virtualenv is useful if the package dependencies have changed since the virtualenv was last created. If the `requirements.txt` or `tools/install_venv.py` files have changed, it's a good idea to recreate the virtualenv.

By default, the unit tests will see both the packages in the virtualenv and the packages that have been installed in the Python global environment. In some cases, the packages in the Python global environment may cause a conflict with the packages in the virtualenv. If this occurs, you can isolate the virtualenv from the global environment by using the flag::

    -s, --no-site packages
If you do not wish to use a virtualenv at all, use the flag: ::

-N, --no-virtual-env

Gotchas
-------

**Running Tests from Shared Folders**

If you are running the unit tests from a shared folder, you may see tests start to fail or stop completely as a result of Python lockfile issues. You can get around this by manually setting or updating the following line in ``cinder/tests/conf_fixture.py``:

```
CONF['lock_path'].SetDefault('/tmp')
```

Note that you may use any location (not just `'/tmp'`) as long as it is not a shared folder.

CINDERCLIENT Tests
==================

Functional Tests
================

Cinderclient contains a suite of functional tests, in the cinderclient/tests/functional directory.

These are currently non-voting, meaning that Jenkins will not reject a patched based on failure of the functional tests. It is highly recommended, however, that these tests are investigated in the case of a failure.

Running the tests
-----------------

Run the tests using tox, which calls ostestr via the tox.ini file. To run all tests simply run::

```
tox -e functional
```

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.
Running a subset of tests using tox
-----------------------------------

One common activity is to just run a single test, you can do this with tox
simply by specifying to just run py27 or py34 tests against a single test::

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli.CinderClientReadOnlyTests.test_list

Or all tests in the test_readonly_clitest_readonly_cli.py file::

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli

For more information on these options and how to run tests, please see the
`ostestr documentation <https://docs.openstack.org/os-testr/latest/>`_.

Gotchas
-------

The cinderclient.tests.functional.test_cli.CinderBackupTests.test_backup_create_and_delete
test will fail in Devstack without c-bak service running, which requires Swift.
Make sure Swift is enabled when you stack.sh by putting this in local.conf:

    enable_service s-proxy s-object s-container s-account

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1.430 python-click 6.3 :1.el7ost

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If you would like to contribute to cliff directly, these instructions should help you get started. Bug reports, and feature requests are all welcome through the `Launchpad project`.

Changes to cliff should be submitted for review via the Gerrit tool, following the workflow documented at https://docs.openstack.org/infra/manual/developers.html#development-workflow

Pull requests submitted through GitHub will be ignored.

Bugs should be filed under the `Launchpad project`.

Before contributing new features to cliff core, please consider whether they should be implemented as an extension instead. The architecture is highly pluggable precisely to keep the core small.

Building Documentation

The documentation for cliff is written in reStructuredText and converted to HTML using Sphinx. The build itself is driven by make. You will need the following packages in order to build the docs:

- Sphinx
- docutils

Once all of the tools are installed into a virtualenv using pip, run `make docs` to generate the HTML version of the documentation:

```
$ make docs
(cd docs && make clean html)
sphinx-build -b html -d build/doctrees source build/html
Running Sphinx v1.1.3
loading pickled environment... done
```
building [html]: targets for 1 source files that are out of date
updating environment: 1 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
done
preparing documents... done
writing output... [100%] index
writing additional files... genindex search
copying static files... done
dumping search index... done
dumping object inventory... done
build succeeded, 2 warnings.

Build finished. The HTML pages are in build/html.

The output version of the documentation ends up in
`./docs/build/html` inside your sandbox.

Running Tests
==============

The test suite for clif uses tox_, which must be installed separately
(``pip install tox``).

To run the tests under Python 2.7 and 3.3 as well as PyPy, run `tox` from the top level directory of the git repository.

To run tests under a single version of Python, specify the appropriate environment when running tox::

$ tox -e py27

Add new tests by modifying an existing file or creating new script in
the `tests` directory.

.. _tox: http://codespeak.net/tox

.. _developer-templates:

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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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!

1.436 python-croniter 0.3.19 :1.el7ost

1.436.1 Available under license:
Copyright (C) 2010-2012 Matsumoto Taichi

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1.437 python-crypto 2.6.1 :16.el7ost

1.437.1 Available under license:
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see
Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author’s website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis’s public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
Delivered-To: dwon@rivest.dlitz.net
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From: dlitz@dlitz.net

To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13]) by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
Client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
Helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1]) by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
-----BEGIN PGP SIGNED MESSAGE-----

###################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender

---BEGIN PGPG SIGNED MESSAGE----
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
#plevel

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
cryptography to be covered by U.S. export controls, but I am submitting
this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjpXr
d+qj0E7eE8VtvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNijJkq8QLz/aq2fi/fHnjyrwnqFnlU0uqwpOlQRGhz8Y+SgpVh1gKqyi1u45L+doq
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHhpQDf8/LVA/gHiTDmteQI0hJQ6o
XYhY+FhbRjsD741/GrspOr9lIN5ln0UgshFoLndnNSA\Av/W4aPyh5KCN7ho/+BC0v/
W/pqSIPkwnbhIdPHoOtTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.
I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
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> 
> ============

DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to :content-type;
b=bf5bhH0A3G3S7f2K/QaTJiHiqD32xHg8v+GpPjUwZ52XQFWt3d9ZcKbT6TqYbGixq+aKcX4Q9DwX6Ei9b6
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rwp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

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> 
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> or implied. Use at your own risk or not at all.
> >=---------------------------------------------------------------------=
> >
> > Incorporating the code into commercial products is permitted; you do
> > not have to make source available or contribute your changes back
> > (though that would be nice).
> >
> > --amk (www.amk.ca)
> >
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> > clearer licensing regime. I am asking as many copyright holders as I can
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> > their contributions.
> >
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> > behalf, dedicate to the public domain all your contributions to PyCrypto,
> > with the following notice?
> > >=---------------------------------------------------------------------=
> > > The contents of this file are dedicated to the public domain. To the
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> > > is granted a worldwide, perpetual, royalty-free, non-exclusive license
> > > to exercise all rights associated with the contents of this file for
> > > any purpose whatsoever. No rights are reserved.
> > >=---------------------------------------------------------------------=
> >>
> > Regards,
> > - Dwayne
> >
> > --
> > Dwayne C. Litzenberger <dlitz@dlitz.net>
> > Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
> >
> > --
> > Jeethu Rao
> >
> > --000e0ed209d0e5a3d40464a23054
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div><div>I don't really check this email address all that often. </div><div>please direct any further correspondence to <a href="mailto:jeethu@jeethurao.com">jeethu@jeethurao.com</a></div><div><br></div><div>On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:<br><blockquote class="gmail_quote" style="margin:0 0 0 .8ex;border-left:1px #ccc solid;padding-left:1ex;">Hi Jeethu,<br><br>I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <a href="http://www.pycrypto.org/" target=_blank">http://www.pycrypto.org/</a>.<br><br>People often ask me what license PyCrypto is covered by, if it is GPL-compatible, etc. Right now, I am not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)</blockquote><br><br>Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).<br><br>-=amk =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 (http://www.amk.ca)" target=3D"_blank">www.amk.ca/a>)</div>
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```
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Regards,

- Dwayne
```

-- 
Dwayne C. Litzenberger  
<dlitz@dlitz.net>

--000e0cd209d0e5a3d40464a23054--
Hi Mark,

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=======================================================================
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=======================================================================

--amk

(www.amk.ca)
Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
    by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0600
DKIM-Signature: v=1; a=rsa-sh256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKFZ8BHenniyupGw4Zvlekb9BSk9lqKU+51W/TkSGBj5YZhkhLQdkQkqLz56f4g8dT66OME3s
EY1j10hxK0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhrPe+Fi6aaoLV0FONWiHgDghPT1dulWxIVTqgB
2aU=
DomainKey-Signature:a=rsa-sh1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RshFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRcxFoeoebhuTE35grGqloM0JLwM0+mZwR6rGkDj7
63caOAlo8Ect/qlADW5izxFmVQaDchTbTqmpSBmQaTQs9iIZ+InrG+3U1wtUSGf7hxEWml9P/HBzxf9Wp4b3j
<e=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn79PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY
4vZSnfTT8wCkzZNz_y6k.XUC3pio_6e.92TXI4p8MdxDGAf1tpNF5nXPwcQ7aRes7jGoWWVJJyVytpp50cIsUFs
Hzf7Zbap8P1Yoex_xSzfzoARSh5fCrbcFFC8sHPCuwrL3YhasbtHmkWffteSS.X6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TznzX9g8Bn9g_f3f4WSxm6g6.tohl.YtXUox4j036wyWpTKPWEziUQaN83Sv_bj_Ghxw--
Received: [from [69,124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> > I am the new maintainer of the Python Cryptography Toolkit,
> > and I am
> > working on a new release at http://www.pycrypto.org/.
> > People often ask me what license PyCrypto is covered by, if
> > it's
> > GPL-compatible, etc. Right now, I'm not really sure
> > what to tell them.
> > The text in the current LICENSE file (quoted below) is not
> > entirely clear
> > on the point of whether distributing modified versions is
> > allowed. (It
> > says "distribute and use", but not "modify").
> >
> > ==================================================================
> > Distribute and use freely; there are
> > no restrictions on further
> > dissemination and usage except those
> > imposed by the laws of your
> > country of residence. This
software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

==================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.

Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

======================================================================

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual,
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
> 
> Hi Dwayne.
> 
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies
for not responding to your previous e-mail.
>
>Regards,
>Mark.
>
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>> Subject: PyCrypto license clarification
>> To: "Mark Moraes" <moraes@computer.org>
>> Date: Saturday, April 18, 2009, 9:14 AM
>> Hi Mark,
>>
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>> and I am
>> working on a new release at http://www.pycrypto.org/.
>>
>> People often ask me what license PyCrypto is covered by, if
>> it's
>> GPL-compatible, etc. Right now, I'm not really sure
>> what to tell them.
>> The text in the current LICENSE file (quoted below) is not
>> entirely clear
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>> says "distribute and use", but not "modify".)
>>
>>
>> ===================================================================
>> Distribute and use freely; there are
>> no restrictions on further
>> dissemination and usage except those
>> imposed by the laws of your
>> country of residence. This
>> software is provided "as is" without
>> warranty of fitness for use or
>> suitability for any purpose, express
>> or implied. Use at your own risk or
>> not at all.
>>
>>
>> ==
>>
>> Incorporating the code into commercial
>> products is permitted; you do
>> not have to make source available or
>> contribute your changes back
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>>
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======================================================================

Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1

1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
On November 23, 2008, you wrote:

Hi Wim,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=
=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline
> People often ask me what license PyCrypto is covered by, if it's
> GPLv-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
  for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :from:date:message-id:subject:content-type
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

Hi Paul,
>
I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

That's great!

I understand that you have made contributions to PyCrypto, under nickname
"z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the public
domain all your contributions to PyCrypto, with the following notice?
>
=C2=A0The contents of this file are dedicated to the public domain. =C2=A0To the
extent that dedication to the public domain is not available, every=
Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
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Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!
You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:
=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>
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Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Excellent! Thank you!
On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
> 
> You have my full permission to dedicate all my contributions to PyCrypto to
> the public domain with your suggested notice:
>================================================================================
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
>================================================================================
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> 
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
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> >> People often ask me what license PyCrypto is covered by, if it’s
> >> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> >> The text in the current LICENSE file (quoted below) is not entirely clear
> >> on the point of whether distributing modified versions is allowed. (It
> >> says "distribute and use", but not "modify".)
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> >> Incorporating the code into commercial products is permitted; you do
> >> not have to make source available or contribute your changes back
> >> (though that would be nice).
> >>
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:
> For the next PyCrypto release, I would like to take steps to move
toward a clearer licensing regime. I am asking as many copyright
holders as I can find if I can release PyCrypto under something
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following dedication for his contributions.

> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?

> =
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> =
> ==============================================================

In case I haven't replied to this yet: Yes, this is fine with me.

robery

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAmZ01gACgkQQQDKvJ6cOLvQCFmYyVODvlyLg0hgCf19LAbQ
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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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1.441 python-dateutil 2.6.1 :1.el7ost

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1.442 python-debtcollector 1.19.0 :1.el7ost
1.442.1 Available under license :

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1.443 python-decorator 3.4.0 :3.el7

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1.445 python-designateclient 2.9.0 :1.el7ost

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Branch, work, & submit:

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   # cut a new branch, tracking master
git checkout --track -b bug/id origin/master
   # work work work
git add stuff
git commit
   # rebase/squash to a single commit before submitting
git rebase -i
   # submit
git-review
Functional Tests

The functional tests invoke the client executable to see that it actually works with a running Designate. WARNING: these tests will create and delete zones, recordsets, and other resources in Designate.

Installation

.. code-block:: shell-session

    cd python-designateclient
    pip install python-openstackclient
    pip install -r requirements.txt -r test-requirements.txt
    pip install -e .

Configuration

The functional tests look for a variable ``TEMPEST_CONFIG`` which specifies a config file for the test.

.. code-block:: shell-session

    export TEMPEST_CONFIG=tempest.conf

The tests will use Keystone to grab the Designate endpoint to test against. They need at least three users (two regular users, and one admin) for all the tests to run.

.. code-block:: shell-session

    [identity]
    uri = http://localhost:5000/v2.0
    uri_v3 = http://localhost:5000/v3
    auth_version = v2
    region = RegionOne

    username = demo
    tenant_name = demo
    password = password
    domain_name = Default

    alt_username = alt_demo
    alt_tenant_name = alt_demo
    alt_password = password
alt_domain_name = Default
admin_username = admin
admin_tenant_name = admin
admin_password = password
admin_domain_name = Default

[designateclient]
# the directory containing the openstack executable
directory=/root/python-designateclient/.venv/bin

Running the tests

The functional tests are run with tox (installed with ``pip install tox``):

.. code-block:: shell-session

    tox -e functional

Contributors Guide

.. toctree::

    contributing
    functional-tests

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1.446 python-django 1.11.11 :1.el7ost

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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.
First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::
The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/

.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/

.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who hasn't spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

If you're going to engage in a big task, make sure that your idea has support first

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this
ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the '#django-dev' IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see
question 1, above.
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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
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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.447 python-django-compressor 2.1 :5.el7ost

1.447.1 Available under license:

django_compressor

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1.448 python-dmidecode 3.12.2 :3.el7

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1.452 python-enum34 1.0.4 :1.el7

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1.453 python-ethtool 0.8 :7.el7

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1.465 python-greenlet 0.4.12 :1.el7ost

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1.466 python-gudev 147.2 :7.el7

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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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1.472 python-ipaddress 1.0.16 :2.el7

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1.473 python-IPy 0.75 :6.el7

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1.474 python-itsdangerous 0.23 :2.el7

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1.475 python-jinja2 2.10 :2.el7ost

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1.476 python-jmespath 0.9.0 :3.el7

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1.477 python-json-logger 0.1.7 :1.el7ost

1.478 python-jsonpatch 1.21 :1.el7ost

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1.480 python-jsonpointer 1.10 :4.1.el7ost

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1.481 python-jsonschema 2.6.0 :2.el7ost

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1.482 python-jwcrypto 0.4.2 :1.el7

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1.488 python-kombu 4.0.2 :5.el7ost
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1.490 python-linux-procfs 0.4.9 :4.el7
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1.492 python-lz4 0.9.0 :2.el7ost

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==========

- Jonathan Underwood combined the block and frame modules into a coherent single project with many fixes, clean-ups and documentation
- Jonathan Underwood added frame bindings based on the `lz4ex
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1.493 python-magnumclient 2.9.1 :1.el7ost
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Testing
-------

Manilaclient has two types of tests - 'unit' and 'functional'.

The preferred way to run tests is using `"tox"`.

See `Consistent Testing Interface`_ for more details.

.. _Consistent Testing Interface: https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

Functional tests
-----------------

Functional CLI tests require several things to be able to run:

* Deployed and working manila service.
* Configured config file.

Config file is used to get information like 'auth_url', 'username', 'tenant_name' and 'password'.

To get config sample need to run following 'tox' job:

$ tox -e genconfig

This will create file 'etc/manilaclient/manilaclient.conf.sample' with all available config opts.

Then rename it removing "sample" and set values for opts there. After it, tests can be run using following tox job:

$ tox
$ tox -e functional
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1.497 python-markupsafe 0.23 :16.el7ost

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Convention for heading levels in Neutron lib devref:
Neutron Lib Internals

.. toctree:
:maxdepth: 3

api_attributes
api_extensions
api_converters
api_validators
callbacks

Review Guidelines

When reviewing neutron-lib changes, please be aware:

* When code is moved from neutron, please evaluate with the following criteria:

  - Is all of the code shared? Don’t move neutron-only code.
  - Is the interface good, or does it need to be refactored? If refactoring is required it must be done before the public interface is released to PyPI as once released it must follow our conventions `<./conventions.html>`.
  - Does it need new tests, specifically around the interface? We want a global unit coverage greater than 90%, and a per-module coverage greater than 80%. If neutron does not yet have a test, it needs to be added. Note that tests on things like constants are uninteresting, but any code or interface should have a unit test, if you cannot tell for sure that it is not going to be traversed in some alternative way (e.g. tempest/functional coverage).
  - Do the public APIs have their parameters and return values documented using reStructuredText docstring format (see below)?
  - In certain cases, it may be beneficial to determine how the neutron-lib code changes impact neutron ‘master’. This can be done as follows:

    - Publish a ‘Do Not Merge’ dummy patch to neutron that uses the code changes proposed (or already in) neutron-lib. Make sure to mark this neutron change as a 'DNM' (or 'WIP') and use -1 for workflow to indicate.
    - Publish a change to neutron-lib that uses ‘Depends-On:’ for the
dummy change in neutron; this pulls the neutron dummy change into the neutron-lib gate job. For example `386846 <https://review.openstack.org/386846/>`_ uses a dummy neutron-lib patch to test code that already exists in neutron-lib `master` whereas `346554 <https://review.openstack.org/#/c/346554/13>`_ tests the neutron-lib patch’s code itself.

- View neutron-lib gate job results and repeat as necessary.

* Public APIs should be documented using `reST style docstrings <https://www.python.org/dev/peps/pep-0287/>`_ that include an overview as well as parameter and return documentation. The format of docstrings can be found in the `OpenStack developer hacking docs <https://docs.openstack.org/hacking/latest/user/hacking.html#docstrings>`_. Note that public API documentation is a bonus, not a requirement.

* Once public classes and methods are pushed to PyPI as part of a neutron-lib release, they must not be destructively changed without following the full OpenStack deprecation path.

For example, do not:

- Change names of classes or methods
- Reorder method arguments
- Change side effects

Alternatives:

- Add a second method with the new signature
- Add keyword arguments

The above implies that if you add something, we are stuck with that interface for a long time, so be careful.

* Removing the code from neutron can be done without a temporary `debtcollection <https://docs.openstack.org/debtcollector/latest/>`_ notice by following the steps described in the 'Consume' phase of the `contributing doc <./contributing.html>`_.

* Any code that imports/uses the following python modules should not be moved into neutron-lib:

  - eventlet

* With respect to `Oslo config options <https://docs.openstack.org/oslo.config/latest/>`_:

  - Config options should only be included in neutron-lib when the respective functionality that uses the options lives in neutron-lib. In this case the options will need to be exposed as entry points for `config generation <https://docs.openstack.org/oslo.config/latest/cli/generator.html>`_.

- Common functionality in neutron-lib that accesses config values should assume the caller has registered them and document such in the docstring for the respective functionality in neutron-lib.

Releasing

Before you intend to release a new version of neutron-lib consider posting a `sentinel patch <https://review.openstack.org/#q,I261ec7e9a5443fd23b806df8c1a109049264fcb,n,z>`_ that will allow to validate that the neutron-lib hash chosen for tagging is not breaking gate or check jobs affecting a project you care about, first and foremost Neutron.

As the patch shows, upper-constraints must be bypassed and that may itself lead to failures due to upstream package changes. The patch also shows (expected) Grenade failures in that Grenade pulls its own upper-constraints file during the upgrade phase. In general a newer version of neutron-lib is validated through the Tempest -full job (and Grenade runs a subset of it), so Grenade failures can be safely ignored.

In any other case consider (for failures caused by unpinned global requirements) hard-coding a dummy upper-constraints file that itself uses the specific neutron-lib hash you want to test. Furthermore, consider using a commit header that starts with DNM (Do Not Merge) to indicate that the change is just a test, or -2, if you have the right access permissions.

It is also worth noting that every Stadium project will have a periodic job running unit tests and pep8 against the master version of neutron-lib Checking Grafana's `periodic <http://grafana.openstack.org/dashboard/db/neutron-lib-failure-rate?panelId=6&fullscreen>`_ dashboard can give you a glimpse into the sanity of the integration between neutron-lib and the Stadium projects, and can be considered the quick check before going ahead with a full blown sentinel patch. Periodic failures can be debugged by viewing the `periodic logs <http://logs.openstack.org/periodic/git.openstack.org/openstack/>`

In addition, both the API reference as well as the project docs should be validated to ensure there are no dead links. To do so run ``tox -e linkcheck`` and address the errors.

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Convention for heading levels in Neutron devref:

======== Heading 0 (reserved for the title in a document)
------- Heading 1
~~~~~~~~ Heading 2
+++++++ Heading 3
"""""""" Heading 4
(Avoid deeper levels because they do not render well.)

API Validators
===============

For the REST API, attributes may have custom validators defined. Each validator will have a method to perform the validation, and a type definition string, so that the validator can be referenced.

Defining A Validator Method
----------------------------

The validation method will have a positional argument for the data to be validated, and may have additional (optional) keyword arguments that can be used during validation. The method must handle any exceptions and either return None (success) or a i18n string indicating the validation failure message. By convention, the method name is prefixed with "validate_" and then includes the data type. For example:

```python
def validate_uuid(data, valid_values=None):
    if not uuidutils.is_uuid_like(data):
        msg = _('"%s" is not a valid UUID') % data
        LOG.debug(msg)
        return msg
```

There is a validation dictionary that maps the method to a validation type that can be referred to in REST API definitions. An entry in the dictionary would look like the following:

```python
'type:uuid': validate_uuid,
```
Using Validators

In client code, the validator can be used in a REST API by using the dictionary key for the validator. For example:

```python
::

NETWORKS: {
    'id': {'allow_post': False, 'allow_put': False,
           'validate': {'type:uuid': None},
           'is_visible': True,
           'primary_key': True},
    'name': {'allow_post': True, 'allow_put': True,
             'validate': {'type:string': NAME_MAX_LEN},
             'default': '', 'is_visible': True}}
```

Here, the networks resource has an 'id' attribute with a UUID validator, as seen by the 'validate' key containing a dictionary with a key of 'type:uuid'.

Any addition arguments for the validator can be specified as values for the dictionary entry (None in this case, NAME_MAX_LEN in the 'name' attribute that uses a string validator). In a IP version attribute, one could have a validator defined as follows:

```python
::

'ip_version': {'allow_post': True, 'allow_put': False,
               'convert_to': conversions.convert_to_int,
               'validate': {'type:values': [4, 6]},
               'is_visible': True}}
```

Here, the validate_values() method will take the list of values as the allowable values that can be specified for this attribute.

Test The Validator

Do the right thing, and make sure you've created a unit test for any validator that you add to verify that it works as expected, even for simple validators.

---

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Convention for heading levels in Neutron devref:

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''''''' Heading 4
(Avoid deeper levels because they do not render well.)

API Extensions
==============

API extensions provide a standardized way of introducing new API functionality. While the `neutron-lib` project itself does not serve an API, the `neutron` project does and leverages the API extension framework from `neutron-lib`.

API extensions consist of the following high-level constructs:

- API definitions that specify the extension's static metadata. This metadata includes basic details about the extension such as its name, description, alias, etc. as well as its extended resources/sub-resources and required/optional extensions. These definitions live in the `neutron_lib.api.definitions` package.
- API reference documenting the APIs/resources added/modified by the extension. This documentation is in `rst` format and is used to generate the openstack API reference <https://developer.openstack.org/api-ref/networking/v2/>_. The API reference lives under the `api-ref/source/v2` directory of the `neutron-lib` project repository.
- An extension descriptor class that must be defined in an extension directory for `neutron` or other sub-project that supports extensions. This concrete class provides the extension's metadata to the API server. These extension classes reside outside of `neutron-lib`, but leverage the base classes from `neutron_lib.api.extensions`. For more details see the section below on using neutron-lib's extension classes.
- The API extension plugin implementation itself. This is the code that implements the extension's behavior and should carry out the operations defined by the extension. This code resides under its respective project repository, not in `neutron-lib`. For more details see the `neutron api extension dev-ref` <https://docs.openstack.org/neutron/latest/contributor/internals/api_extensions.html>_.


Using neutron-lib's base extension classes
------------------------------------------

The `neutron_lib.api.extensions` module provides a set of base extension
descriptor classes consumers can use to define their extension descriptor(s).
For those extensions that have an API definition in
`neutron_lib.api.definitions`, the `APIExtensionDescriptor` class can
be used. For example::

    from neutron_lib.api.definitions import provider_net
    from neutron_lib.api import extensions

    class Providernet(extensions.APIExtensionDescriptor):
        api_definition = provider_net
        # nothing else needed if default behavior is acceptable

For extensions that do not yet have a definition in
`neutron_lib.api.definitions`, they can continue to use the
`ExtensionDescriptor` as has been done historically.

Neutron-Lib Conventions
-----------------------

Summary
-------

* Standard modules - current cycle + 2 deprecation policy
* Legacy modules - current cycle + 1 deprecation policy
* Private modules - no deprecation warnings of any kind

Interface Contract
--------------------

The neutron-lib repo exists to provide code with a long-term stable interface
for subprojects. If we do need to deprecate something, a debtcollector
warning will be added, the neutron-lib core team will make every effort to
update any neutron stadium project for you, and you will get at least the
current release plus two cycles before it disappears.

In keeping with how hard it is to remove things, the change velocity of this
library will be slower than neutron. There are two notable cases where code
should go into standard neutron instead of this lib (or your repo):

* It is something common, but changes a lot. An example is something like
the neutron Port object. Everyone uses it, but it changes frequently. You don't want to wait for a library release to tweak some neutron feature, and we are not going to force releases quickly because you tried to put it here. Those items will need to be addressed in some other manner (in the case of the Port object, it'll be via an auto-magic container object that mimics it.)

* It is something common, but you need it now. Put it in the repo that needs it, get your stuff working. Then consider making it available in the lib, and eventually remove it from your repo when the lib is publishing it.
An example would be a new neutron constant. The process would be, put it in neutron along with your change, submit it to the lib, when that constant is eventually available, remove it from neutron and use the lib version.

Private Interfaces
-----------------

Private interfaces are *PRIVATE*. They will disappear, be renamed, and absolutely no regard will be given to anyone that is using them. They are for internal library use only.

DO NOT USE THEM. THEY WILL CHANGE.

Private interfaces in this library will always have a leading underscore, on the module or function name.

Legacy Modules
--------------

This library has a special namespace called neutron_lib.legacy.

Anything in this directory will likely get a new interface in the top-level library sometime in the near future, and then a debtcollector deprecation notice. Expect to get current cycle plus one release of maintenance at that point, and then they will be removed.

Why this intermediary step? Because neutron has some serious dependency issues with its subprojects that need breaking, we do not want to rush some of the refactors to our interfaces that need to happen, we have limited resources, but we still need to make addressing those dependency issues a high priority.

The legacy module is for those existing modules in neutron that are in wide use by subprojects, but which are not super interfaces. The legacy submodule is for routines that will still be maintained with a long-term backwards compatibility interface contract, but which are not considered "library worthy" by the neutron core team.
This can easily be abused as a kitchen sink to just move stuff and make fast progress. Please do not do this, and do not expect this kind of thing to be favorably reviewed. Good candidates for this area are things that we want to refactor, but are lower priority, AND they have been around for a long time with no changes (i.e. an existing history of stability).

Contributing

As your code is subject to the `review guidelines <./review-guidelines.html>`_, please take the time to familiarize yourself with those guidelines.

Rehoming Existing Code

The checklist below aims to provide guidance for developers rehoming (moving) code into neutron-lib. Rehoming approaches that fall outside the scope herein will need to be considered on a case by case basis.

The rehoming workflow procedure has four main phases:

1. `Phase 1: Rehome`_ the code from neutron into neutron-lib.
2. `Phase 2: Enhance`_ the code in neutron-lib if necessary.
3. `Phase 3: Release`_ neutron-lib with the code so consumers can use it.
4. `Phase 4: Consume`_ by removing the rehomed code from its source and changing references to use neutron-lib.

Phase 1: Rehome

Identify the chunk of code for rehoming. Applicable code includes common classes/functions/modules/etc. that are consumed by networking project(s) outside of neutron. Optimal consumption patterns of the code at hand must also be considered to ensure the rehomed code addresses any technical debt. Finally, leave low-hanging fruit for last and tackle the most commonly used code first. If you have any doubt about the applicability of code for rehoming, reach out to one of the neutron core developers before digging in.

Find and identify any unit tests for the code being rehomed. These unit tests can often be moved into neutron-lib with minimal effort. After inspecting the applicable unit tests, rewrite any that are non-optimal.

Search and understand the consumers of the code being rehomed. This must include other networking projects in addition to neutron itself. At this point it may be determined that the code should be refactored before it is consumed. There are a few common
strategies for refactoring, and the one chosen will depend on the nature of the code at hand:

- Refactor/enhance the code as part of the initial neutron-lib patch. If this change will be disruptive to consumers, clearly communicate the change via email list or ‘meeting topic <https://wiki.openstack.org/wiki/Network/Meetings>`_.
- Leave the refactoring to the next (Enhance) phase. In this rehome phase, copy the code as-is into a private module according to our `conventions <./conventions.html>`_. This approach is slower, but may be necessary in some cases.

#. Understand existing work underway which may impact the rehomed code, for example, in-flight patch sets that update the code being rehomed. In some cases it may make sense to let the in-flight patch merge and solidify a bit before rehoming.

#. Prepare the code for neutron-lib. This may require replacing existing imports with those provided by neutron-lib and/or rewriting/rearchitecting non-optimal code (see above). The interfaces in the rehomed code are subject to our `conventions <./conventions.html>`_.

#. Prepare the unit test code for neutron-lib. As indicated in the `review guidelines <./review-guidelines.html>`_, we are looking for a high code coverage by tests. This may require adding additional tests if neutron was lacking in coverage.

#. Submit and shepherd your patch through its neutron-lib review. Include a `release note <https://docs.openstack.org/reno/latest/>`_ that describes the code's old neutron location and new neutron-lib location. Also note that in some cases it makes sense to prototype a change in a consumer project to better understand the impacts of the change, which can be done using the `Depends-On:`` approach described in the `review guidelines <./review-guidelines.html>`_.

Examples:

- `319769 <https://review.openstack.org/319769/>`_ brought over a number of common utility functions as-is from neutron into a new package structure within neutron-lib.
- `253661 <https://review.openstack.org/253661/>`_ rehomed neutron callbacks into a private package that's enhanced via `346554 <https://review.openstack.org/346554/>`_.

Phase 2: Enhance

~~~~~~~~~~~~~

If the rehomed code is not applicable for enhancements and wasn't made private in Phase 1, you can skip this step.

Develop and shepherd the enhancements to the private rehomed code applicable at this time. Private APIs made public as part of this phase will also need `release notes <https://docs.openstack.org/reno/latest/>`_ indicating the new public
Examples:

- `346554 <https://review.openstack.org/346554/>`_ enhances the rehomed private callback API in neutron-lib.

Phase 3: Release

~~~~~~~~~~~~~~

A new neutron-lib release can be cut at any time. You can also request a release by following the README instructions in the `openstack/releases <https://github.com/openstack/releases>`_ project.

Once a release is cut, an openstack infra proposal bot will submit patches to the master branch of all projects that consume neutron-lib to set the new release as the minimum requirement. Someone from the neutron release team can bump `global requirements` (g-r); for example `review 393600 <https://review.openstack.org/393600/>`___.

When the bot-proposed requirement patches have merged, your rehomed code can be consumed.

Phase 4: Consume

~~~~~~~~~~~~~~

It’s critical that before you submit your patch to remove the rehomed code from its source that you perform a diff between it and the rehomed version in neutron-lib to ensure nothing has changed in the source. If something has changed in the source, you need to push and shepherd a patch to neutron-lib with the difference(s) before proceeding with this consumption phase.

The following guidelines are intended to provide a smooth transition to the rehomed code in neutron-lib and minimize impacts to subprojects consuming the rehomed code from its source.

- If the change to consume the code from neutron-lib is widespread and/or "important", introduce your intentions for the change via the Neutron team `meeting slot <https://wiki.openstack.org/wiki/Network/Meetings>`__ for neutron-lib. Subsequently follow-up with an email to openstack-dev list using a subject with `"[neutron] neutron-lib impact"` providing additional details as necessary. Ideally we can identify the main impacted subprojects by `grepping the OpenStack code <http://codesearch.openstack.org/>`__.
- Prepare a neutron core patch to remove and update the rehomed code from its source. This can be done without a `debtcollector <https://docs.openstack.org/debtcollector/latest/>`__ notice by following the steps here. In the patch's commit message include the `"NeutronLibImpact"` so that we can easily `query <https://review.openstack.org/#/q/status:open+message:%22NeutronLibImpact%22>`__ for such changes. Mark the patch as a work in progress with a -1 workflow vote.
- If the change is significant enough, it may warrant a "reference implementation" in an impacted subproject to ensure the impacts are fully understood. Testing this change can be done using the `"Depends-On:"` approach described in the

---

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11423
If you are a core reviewer and about to approve a NeutronLibImpact change, please consider checking the state of all Stadium subprojects by looking at the "grafana periodic dashboard <http://grafana.openstack.org/dashboard/db/neutron-lib-failure-rate?panelId=4&fullscreen>". This dashboard shows the status of subprojects' unit tests against neutron and neutron-lib master branches, and even though it is not exactly validating unit tests against a released version of neutron-lib it may be enough of an alarm bell to indicate that something might be wrong because of a patch that recently landed in neutron (assuming that the subprojects still has direct neutron imports). The check happens daily therefore consider waiting to approve if you are either aware of another impactful change recently merged that has not been yet processed or you see failure rates spiking.

Examples:

- `348472 <https://review.openstack.org/348472/>`_ removes a validator in neutron that was rehomed to neutron-lib.

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Convention for heading levels in Neutron devref:

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====== Heading 0 (reserved for the title in a document)
------ Heading 1
~~~~~~ Heading 2
++++++++ Heading 3
~~~~~ Heading 4
```

(Avoid deeper levels because they do not render well.)

Neutron Callback System

In Neutron, core and service components may need to cooperate during the execution of certain operations, or they may need to react upon the occurrence of certain events. For instance, when a Neutron resource is associated to multiple services, the components in charge of these services may need to play an active role in determining what the right state of the resource needs to be.
The cooperation may be achieved by making each object aware of each other, but this leads to tight coupling, or alternatively it can be achieved by using a callback-based system, where the same objects are allowed to cooperate in a loose manner.

This is particularly important since the spin off of the advanced services like VPN, Firewall and Load Balancer, where each service's codebase lives independently from the core and from one another. This means that the tight coupling is no longer a practical solution for object cooperation. In addition to this, if more services are developed independently, there is no viable integration between them and the Neutron core. A callback system, and its registry, tries to address these issues.

In object-oriented software systems, method invocation is also known as message passing: an object passes a message to another object, and it may or may not expect a message back. This point-to-point interaction can take place between the parties directly involved in the communication, or it can happen via an intermediary. The intermediary is then in charge of keeping track of who is interested in the messages and in delivering the messages forth and back, when required. As mentioned earlier, the use of an intermediary has the benefit of decoupling the parties involved in the communications, as now they only need to know about the intermediary; the other benefit is that the use of an intermediary opens up the possibility of multiple party communication: more than one object can express interest in receiving the same message, and the same message can be delivered to more than one object. To this aim, the intermediary is the entity that exists throughout the system lifecycle, as it needs to be able to track whose interest is associated to what message.

In a design for a system that enables callback-based communication, the following aspects need to be taken into account:

* how to become consumer of messages (i.e. how to be on the receiving end of the message);
* how to become producer of messages (i.e. how to be on the sending end of the message);
* how to consume/produce messages selectively;

Translate and narrow this down to Neutron needs, and this means the design of a callback system where messages are about lifecycle events (e.g. before creation, before deletion, etc.) of Neutron resources (e.g. networks, routers, ports, etc.), where the various parties can express interest in knowing when these events for a specific resources take place.

Rather than keeping the conversation abstract, let us delve into some examples, that would help understand better some of the principles behind the provided mechanism.

Event payloads
-------------
The use of `**kwargs` for callback event payloads is deprecated (slated to be removed in 'Queens') in favor of standardized event payload objects as described herein.

The event payloads are defined in `neutron_lib.callbacks.events` and define a set of payload objects based on consumption pattern. The following event objects are defined today:

- `EventPayload`: Base object for all other payloads and define the common set of attributes used by events. The `EventPayload` can also be used directly for basic payloads that don't need to transport additional values.
- `DBEventPayload`: Payloads pertaining to database callbacks. These objects capture both the pre and post state (among other things) for database changes.
- `APIEventPayload`: Payloads pertaining to API callbacks. These objects capture details relating to an API event; such as the method name and API action.

Each event object is described in greater detail in its own subsection below.

For backwards compatibility the callback registry and manager still provide the `notify` method for passing `**kwargs`, but also provide the `publish` method for passing an event object.

Event objects: EventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~

The `EventPayload` object is the parent class of all other payload objects and defines the common set of attributes applicable to most events. For example, the `EventPayload` contains the `context`, `request_body`, etc. In addition, a `metadata` attribute is available to transport event data that's not yet standardized. While the `metadata` attribute is there for use, it should only be used in special cases like phasing in new payload attributes.

Payload objects also transport resource state via the `states` attribute. This collection of resource objects tracks the state changes for the respective resource related to the event. For example database changes might have a pre and post updated resource that's used as `states`. Tracking states allows consumers to inspect the various changes in the resource and take action as needed; for example checking the pre and post object to determine the delta. State object types are event specific; API events may use python `dicts` as state objects whereas database events use resource/OVO model objects.

Note that states as well as any other event payload attributes are not copied; subscribers obtain a direct reference to event payload objects (states, metadata, etc.) and should not be modified by subscribers.
Event objects: DBEventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

For datastore/database events, `DBEventPayload` can be used as the payload event object. In addition to the attributes inherited from `EventPayload`, database payloads also contain an additional `desired_state`. The desired state is intended for use with pre create/commit scenarios where the publisher has a resource object (yet to be persisted) that's used in the event payload.

These event objects are suitable for the standard before/after database events we have today as well as any that might arise in the future.

Example usage:

```python
# BEFORE_CREATE:
DBEventPayload(context,
    request_body=params_of_create_request,
    resource_id=id_of_resource_if_avail,
    desired_state=db_resource_to_commit)

# AFTER_CREATE:
DBEventPayload(context,
    request_body=params_of_create_request,
    states=[my_new_copy_after_create],
    resource_id=id_of_resource)

# PRECOMMIT_CREATE:
DBEventPayload(context,
    request_body=params_of_create_request,
    resource_id=id_of_resource_if_avail,
    desired_state=db_resource_to_commit)

# BEFORE_DELETE:
DBEventPayload(context,
    states=[resource_to_delete],
    resource_id=id_of_resource)

# AFTER_DELETE:
DBEventPayload(context,
    states=[copy_of_deleted_resource],
    resource_id=id_of_resource)

# BEFORE_UPDATE:
DBEventPayload(context,
    request_body=body_of_update_request,
    states=[original_db_resource],
    resource_id=id_of_resource)
```
resource_id=id_of_resource
desired_state=updated_db_resource_to_commit)

# AFTER_UPDATE:
DBEventPayload(context,
    request_body=body_of_update_request,
    states=[original_db_resource, updated_db_resource],
    resource_id=id_of_resource)

Event objects: APIEventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

For API related callbacks, the `APIEventPayload` object can be used to transport callback payloads. For example, the REST API resource controller can use API events for pre/post operation callbacks.

In addition to transporting all the attributes of `EventPayload`, the `APIEventPayload` object also includes the `action`, `method_name` and `collection_name` payload attributes permitting API components to pass along API controller specifics.

Sample usage::

    # BEFORE_RESPONSE for create:
    APIEventPayload(context, notifier_method, action,
        request_body=req_body,
        states=[create_result],
        collection_name=self._collection_name)

    # BEFORE_RESPONSE for delete:
    APIEventPayload(context, notifier_method, action,
        states=[copy_of_deleted_resource],
        collection_name=self._collection_name)

    # BEFORE_RESPONSE for update:
    APIEventPayload(context, notifier_method, action,
        states=[original, updated],
        collection_name=self._collection_name)

Subscribing to events
---------------------

Imagine that you have entity A, B, and C that have some common business over router creation. A wants to tell B and C that the router has been created and that they need to get on and do whatever they are supposed to do. In a callback-less world this would work like so:

```python
# BEFORE_RESPONSE for create:
APIEventPayload(context, notifier_method, action,
    request_body=req_body,
    states=[create_result],
    collection_name=self._collection_name)

# BEFORE_RESPONSE for delete:
APIEventPayload(context, notifier_method, action,
    states=[copy_of_deleted_resource],
    collection_name=self._collection_name)

# BEFORE_RESPONSE for update:
APIEventPayload(context, notifier_method, action,
    states=[original, updated],
    collection_name=self._collection_name)
```
# A is done creating the resource
# A gets hold of the references of B and C
# A calls B
# A calls C
B->my_random_method_for_knowing_about_router_created()
C->my_random_very_difficult_to_remember_method_about_router_created()

If B and/or C change, things become sour. In a callback-based world, things become a lot more uniform and straightforward:

# B and C ask I to be notified when A is done creating the resource
# ...
# A is done creating the resource
# A gets hold of the reference to the intermediary I
# A calls I
I->notify()

Since B and C will have expressed interest in knowing about A's business, I will deliver the messages to B and C. If B and C changes, A and I do not need to change.

In practical terms this scenario would be translated in the code below:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload):
    print('Callback1 called by trigger: ', trigger)
    print('payload: ', payload)

def callback2(resource, event, trigger, payload):
    print('Callback2 called by trigger: ', trigger)
    print('payload: ', payload)

# B and C express interest with I
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.BEFORE_CREATE)
print('Subscribed')
```
# A notifies

def do_notify():
    registry.publish(resources.ROUTER, events.BEFORE_CREATE,
                      do_notify, events.EventPayload(None))

print('Notifying...')
do_notify()

The output is:

```
> Subscribed
> Notifying...
> Callback2 called by trigger: <function do_notify at 0x7f2a5d663410>
> payload: <neutron_lib._callbacks.events.EventPayload object at 0x7ff9ed253510>
> Callback1 called by trigger: <function do_notify at 0x7f2a5d663410>
> payload: <neutron_lib._callbacks.events.EventPayload object at 0x7ff9ed253510>
```

Thanks to the intermediary existence throughout the life of the system, A, B, and C are flexible to evolve their internals, dynamics, and lifecycles.

Subscribing and aborting events
---------------------------------

Interestingly in Neutron, certain events may need to be forbidden from happening due to the nature of the resources involved. To this aim, the callback-based mechanism has been designed to support a use case where, when callbacks subscribe to specific events, the action that results from it, may lead to the propagation of a message back to the sender, so that it itself can be alerted and stop the execution of the activity that led to the message dispatch in the first place.

The typical example is where a resource, like a router, is used by one or more high-level service(s), like a VPN or a Firewall, and actions like interface removal or router destruction cannot not take place, because the resource is shared.

To address this scenario, special events are introduced, 'BEFORE_*' events, to which callbacks can subscribe and have the opportunity to 'abort', by raising an exception when notified.

Since multiple callbacks may express an interest in the same event for a particular resource, and since callbacks are executed independently from one another, this may lead to situations where notifications that occurred before the exception must be aborted. To this aim, when an exception occurs during the notification process, an abort_* event is propagated immediately after. It is up to the callback developer to determine whether subscribing to an abort
notification is required in order to revert the actions performed during the initial execution of the callback (when the BEFORE_* event was fired). Exceptions caused by callbacks registered to abort events are ignored. The snippet below shows this in action:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import exceptions
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload=None):
    raise Exception('I am failing!')

def callback2(resource, event, trigger, payload=None):
    print('Callback2 called by %s on event %s' % (trigger, event))

registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.ABORT_CREATE)
print('Subscribed')

def do_notify():
    registry.publish(resources.ROUTER, events.BEFORE_CREATE, do_notify)

print('Notifying...')
try:
    do_notify()
except exceptions.CallbackFailure as e:
    print("Error: %s" % e)
```

The output is:

```
> Subscribed
> Notifying...
> Callback2 called by <function do_notify at 0x7f3194c7f410> on event before_create
> Callback2 called by <function do_notify at 0x7f3194c7f410> on event abort_create
> Error: Callback __main__.callback1 failed with "I am failing!"
```

In this case, upon the notification of the BEFORE_CREATE event, Callback1 triggers an exception that can be used to stop the action from taking place in do_notify(). On the other end, Callback2 will be executing twice, once for dealing with the BEFORE_CREATE event, and once to undo the actions during the ABORT_CREATE event. It is worth noting that it is not mandatory to have
the same callback register to both BEFORE_* and the respective ABORT_* event; as a matter of fact, it is best to make use of different callbacks to keep the two logic separate.

Unsubscribing to events
-----------------------

There are a few options to unsubscribe registered callbacks:

* clear(): it unsubscribes all subscribed callbacks: this can be useful especially when winding down the system, and notifications shall no longer be triggered.
* unsubscribe(): it selectively unsubscribes a callback for a specific resource's event. Say callback C has subscribed to event A for resource R, any notification of event A for resource R will no longer be handed over to C, after the unsubscribe() invocation.
* unsubscribe_by_resource(): say that callback C has subscribed to event A, B, and C for resource R, any notification of events related to resource R will no longer be handed over to C, after the unsubscribe_by_resource() invocation.
* unsubscribe_all(): say that callback C has subscribed to events A, B for resource R1, and events C, D for resource R2, any notification of events pertaining resources R1 and R2 will no longer be handed over to C, after the unsubscribe_all() invocation.

The snippet below shows these concepts in action:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import exceptions
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload=None):
    print('Callback1 called by %s on event %s for resource %s' % (trigger, event, resource))

def callback2(resource, event, trigger, payload=None):
    print('Callback2 called by %s on event %s for resource %s' % (trigger, event, resource))

registry.subscribe(callback1, resources.ROUTER, events.BEFORE_READ)
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback1, resources.ROUTER, events.AFTER_DELETE)
registry.subscribe(callback1, resources.PORT, events.BEFORE_UPDATE)
registry.subscribe(callback2, resources.ROUTER_GATEWAY, events.BEFORE_UPDATE)
print('Subscribed')

def do_notify():
```
print('Notifying...')
registry.publish(resources.ROUTER, events.BEFORE_READ, do_notify)
registry.publish(resources.ROUTER, events.BEFORE_CREATE, do_notify)
registry.publish(resources.ROUTER, events.AFTER_DELETE, do_notify)
registry.publish(resources.PORT, events.BEFORE_UPDATE, do_notify)
registry.publish(resources.ROUTER_GATEWAY, events.BEFORE_UPDATE, do_notify)

do_notify()
registry.unsubscribe(callback1, resources.ROUTER, events.BEFORE_READ)
do_notify()
registry.unsubscribe_by_resource(callback1, resources.PORT)
do_notify()
registry.unsubscribe_all(callback1)
do_notify()
registry.clear()
do_notify()

The output is:

::

Subscribed
Notifying...
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_read for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_create for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event after_delete for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource port
Callback2 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource router_gateway
Notifying...
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_create for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event after_delete for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource port
Callback2 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource router_gateway
Notifying...
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event before_create for resource router
Callback1 called by <function do_notify at 0x7f062c8f67d0> on event after_delete for resource router
Callback2 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource router_gateway
Notifying...
Callback2 called by <function do_notify at 0x7f062c8f67d0> on event before_update for resource router_gateway
Notifying...

Subscribing events using registry decorator
-------------------------------------------------------------

Now neutron-lib supports using registry decorators to subscribe events.
There are two decorators `has_registryreceivers`, which sets up the
class `__new__` method to subscribe the bound method in the callback registry after object instantiation. `receives` use to decorate callback method which must defines the resource and events.

Any class use `receives` must be decorated with `has_registry_receivers`.

Testing with callbacks
----------------------

A python `fixture` [https://pypi.python.org/pypi/fixtures]`._ is provided for implementations that need to unit test and mock the callback registry. This can be used for example, when your code publishes callback events that you need to verify. Consumers can use `neutron_lib.tests.unit.callbacks.base.CallbackRegistryFixture` in their unit test classes with the `useFixture()` method passing along a `CallbackRegistryFixture` instance. If mocking of the actual singleton callback manager is necessary, consumers can pass a value to with the `callback_manager` kwarg. For example::

```python
def setUp(self):
    super(MyTestClass, self).setUp()
    self.registry_fixture = callback_base.CallbackRegistryFixture()
    self.useFixture(self.registry_fixture)
    # each test now uses an isolated callback manager
```

FAQ
---

Can I use the callbacks registry to subscribe and notify non-core resources and events?

Short answer is yes. The callbacks module defines literals for what are considered core Neutron resources and events. However, the ability to subscribe/notify is not limited to these as you can use your own defined resources and/or events. Just make sure you use string literals, as typos are common, and the registry does not provide any runtime validation. Therefore, make sure you test your code!

What is the relationship between Callbacks and Taskflow?

There is no overlap between Callbacks and Taskflow or mutual exclusion; as matter of fact they can be combined; You could have a callback that goes on and trigger a taskflow. It is a nice way of separating implementation from abstraction, because you can keep the callback in place and change Taskflow with something else.

Is there any ordering guarantee during notifications?

No, the ordering in which callbacks are notified is completely arbitrary by design: callbacks should know nothing about each other, and ordering should not matter; a callback will always be notified and its outcome should always be the same regardless as to in which order it is notified. Priorities can be a future extension, if a use case arises that require enforced ordering.
How is the notifying object expected to interact with the subscribing objects?

The `notify` method implements a one-way communication paradigm: the notifier sends a message without expecting a response back (in other words it fires and forget). However, due to the nature of Python, the payload can be mutated by the subscribing objects, and this can lead to unexpected behavior of your code, if you assume that this is the intentional design. Bear in mind, that passing-by-value using deepcopy was not chosen for efficiency reasons. Having said that, if you intend for the notifier object to expect a response, then the notifier itself would need to act as a subscriber.

Is the registry thread-safe?

Short answer is no: it is not safe to make mutations while callbacks are being called (more details as to why can be found line 937 of `dictobject <https://hg.python.org/releasing/2.7.9/file/753a8f457ddc/Objects/dictobject.c>`). A mutation could happen if a 'subscribe?unsubscribe' operation interleaves with the execution of the notify loop. Albeit there is a possibility that things may end up in a bad state, the registry works correctly under the assumption that subscriptions happen at the very beginning of the life of the process and that the unsubscriptions (if any) take place at the very end. In this case, chances that things do go badly may be pretty slim. Making the registry thread-safe will be considered as a future improvement.

What kind of function can be a callback?

Anything you fancy: lambdas, `closures`, class, object or module methods. For instance:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload):
    print('module callback')

class MyCallback(object):
    def callback2(self, resource, event, trigger, payload):
        print('object callback')

    @classmethod
    def callback3(cls, resource, event, trigger, payload):
        print('class callback')
```
c = MyCallback()
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(c.callback2, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(MyCallback.callback3, resources.ROUTER, events.BEFORE_CREATE)

def do_notify():
    def nested_subscribe(resource, event, trigger, payload):
        print('nested callback')

    registry.subscribe(nested_subscribe, resources.ROUTER, events.BEFORE_CREATE)

    registry.publish(resources.ROUTER, events.BEFORE_CREATE,
                     do_notify, events.EventPayload(None))

    print('Notifying...')
    do_notify()

And the output is going to be:

::

Notifying...
module callback
object callback
class callback
nested callback

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Contributor Guide
=================

In the Contributor Guide, you will find information on the Neutron Library components and in how to use them, from a development standpoint.

.. toctree::
:maxdepth: 2

  conventions
  review-guidelines
  contributing
  releasing
  internals

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API Converters
===============

Definitions for REST API attributes, can include conversion methods to help normalize user input or transform the input into a form that can be used.

Defining A Converter Method
---------------------------
By convention, the name should start with `convert_to_`, and will take a single argument for the data to be converted. The method should return the converted data (which, if the input is None, and no conversion is performed, the implicit None returned by the method may be used). If the conversion is impossible, an InvalidInput exception should be raised, indicating what is wrong.

For example, here is one that converts a variety of user inputs to a boolean value.

```python
def convert_to_boolean(data):
    if isinstance(data, six.string_types):
        val = data.lower()
        if val == "true" or val == "1":
            return True
        if val == "false" or val == "0":
            return False
    elif isinstance(data, bool):
        return data
    elif isinstance(data, int):
        if data == 0:
            return False
        elif data == 1:
            return True
        msg = _("'%s' cannot be converted to boolean") % data
        raise n_exc.InvalidInput(error_message=msg)
```

Using Validators
-----------------

In client code, the conversion can be used in a REST API definition, by specifying the name of the method as a value for the 'convert_to' key on an attribute. For example:

```python
'admin_state_up': {'allow_post': True, 'allow_put': True,
    'default': True,
    'convert_to': conversions.convert_to_boolean,
    'is_visible': True},
```

Here, the admin_state_up is a boolean, so the converter is used to take user's (string) input and transform it to a boolean.
Do the right thing, and make sure you've created a unit test for any converter that you add to verify that it works as expected.

IPv6 canonical address formatter
---------------------------------

There are several ways to display an IPv6 address, which can lead to a lot of confusion for users, engineers and operators alike. To reduce the impact of the multifaceted style of writing an IPv6 address, it is proposed that the IPv6 address in Neutron should be saved in the canonical format.

If a user passes an IPv6 address, it will be saved in the canonical format.

The full document is found at: http://tools.ietf.org/html/rfc5952

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API Attributes
==============

Neutron's resource attributes are defined in dictionaries in ```api/definitions```. The map containing all installed resources (for core and active extensions) is in ```api/attributes.py```. 
Attribute map structure
-------------------------------

Example attribute definitions for `dns_name`:

.. code-block:: python

    'dns_name': {
        'allow_post': True,
        'allow_put': True,
        'default': '',
        'convert_to': convert_to_lowercase,
        'validate': {'type:dns_name': FQDN_MAX_LEN},
        'is_visible': True
    },

The `validate` item specifies rules for validating <api_validators.html>_ the attribute.

The `convert_to` item specifies rules for converting <api_converters.html>_ the attribute.

Example attribute definitions for `gateway_ip`:

.. code-block:: python

    'gateway_ip': {
        'allow_post': True,
        'allow_put': True,
        'default': constants.ATTR_NOT_SPECIFIED,
        'validate': {'type:ip_address_or_none': None},
        'is_visible': True
    }

Note: a default of `ATTR_NOT_SPECIFIED` indicates that an attribute is not required, but will be generated by the plugin if it is not specified.
Particularly, a value of `ATTR_NOT_SPECIFIED` is different from an attribute that has been specified with a value of `None`. For example, if `gateway_ip` is omitted in a request to create a subnet, the plugin will receive `ATTR_NOT_SPECIFIED` and the default gateway IP will be generated. However, if `gateway_ip` is specified as `None`, this means that the subnet does not have a gateway IP.

The following are the defined keys for attribute maps:

====================================  =======
default value of the attribute (if missing, the attribute becomes mandatory)

allow_post: the attribute can be used on "POST" requests

allow_put: the attribute can be used on "PUT" requests

validate: specifies rules for validating data in the attribute

convert_to: transformation to apply to the value before it is returned

convert_list_to: if the value is a list, apply this transformation to the value before it is returned

is_visible: the attribute is returned in "GET" responses

required_by_policy: the attribute is required by the policy engine and should therefore be filled by the API layer even if not present in request body

enforce_policy: the attribute is actively part of the policy enforcing mechanism, i.e. there might be rules which refer to this attribute

primary_key: Mark the attribute as a unique key.

======================  ======

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Transition to OpenStack Client
================================

This document details the transition roadmap for moving the neutron client's OpenStack Networking API support, both the Python library and the ``neutron`` command-line interface (CLI), to the `OpenStack Client (OSC) <https://github.com/openstack/python-openstackclient>`_ and the `OpenStack Python SDK <https://github.com/openstack/python-openstacksdk>`_.

This transition is being guided by the `Deprecate individual CLIs in favour of OSC <https://review.openstack.org/#/c/243348/>`_ OpenStack spec. See the `Neutron RFE <https://bugs.launchpad.net/neutron/+bug/1521291>`_ and details below for the overall progress of this transition.

Overview
--------

This transition will result in the neutron client's ``neutron`` CLI being deprecated and then eventually removed. The ``neutron`` CLI will be replaced by OSC's networking support available via the ``openstack`` CLI. This is similar to the deprecation and removal process for the `keystone client's <https://github.com/openstack/python-keystoneclient>`_.

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``keystone`` CLI. The neutron client's Python library won't be deprecated. It will be available along side the networking support provided by the OpenStack Python SDK.

Users of the neutron client's command extensions will need to transition to the OSC plugin system before the ``neutron`` CLI is removed. Such users will maintain their OSC plugin commands within their own project and will be responsible for deprecating and removing their ``neuron`` CLI extension.

Transition Steps
---------------

1. **Done:** OSC adds OpenStack Python SDK as a dependency. See the following patch set: https://review.openstack.org/#/c/138745/

2. **Done:** OSC switches its networking support for the `network` command object to use the OpenStack Python SDK instead of the neutron client's Python library. See the following patch set: https://review.openstack.org/#/c/253348/

3. **Done:** OSC removes its python-neutronclient dependency. See the following patch set: https://review.openstack.org/#/c/255545/

4. **In Progress:** OpenStack Python SDK releases version 1.0 to guarantee backwards compatibility of its networking support and OSC updates its dependencies to include OpenStack Python SDK version 1.0 or later. See the following blueprint: https://blueprints.launchpad.net/python-openstackclient/+spec/network-command-sdk-support

5. **Done:** OSC switches its networking support for the `ip floating`, `ip floating pool`, `ip fixed`, `security group`, and `security group rule` command objects to use the OpenStack Python SDK instead of the nova client's Python library when neutron is enabled. When nova network is enabled, then the nova client's Python library will continue to be used. See the following OSC bugs:

   * **Done** `Floating IP CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519502>`_

   * **Done** `Port CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519909>`_
6. **In Progress:** OSC continues enhancing its networking support. At this point and when applicable, enhancements to the `neutron` CLI must also be made to the `openstack` CLI and possibly the OpenStack Python SDK. Users of the neutron client's command extensions should start their transition to the OSC plugin system. See the developer guide section below for more information on this step.

7. **In Progress:** Deprecate the `neutron` CLI. Running the CLI after it has been deprecated will issue a warning message: `neutron CLI is deprecated and will be removed in the future. Use openstack CLI instead.` In addition, no new features will be added to the CLI, though fixes to the CLI will be assessed on a case by case basis.

8. **Not Started:** Remove the `neutron` CLI after two deprecation cycles once the criteria below have been met.

   * The networking support provided by the `openstack` CLI is functionally equivalent to the `neutron` CLI and it contains sufficient functional and unit test coverage.


   * Most users of the neutron client's command extensions have transitioned to the OSC plugin system and use the `openstack` CLI instead of the `neutron` CLI.

Developer Guide
---------------

The `neutron` CLI version 6.x, without extensions, supports over 200 commands while the `openstack` CLI version 3.3.0 supports over 70 networking commands. Of the 70 commands, some do not have all of the options or arguments of their `neutron` equivalent. With this large functional gap, a few critical questions for developers during this transition are "Which CLI do I change?", "Where does my CLI belong?", and "Which Python library do I change?" The answer depends on the state of a command and the state of the overall transition. Details are outlined in the tables below. Early stages of the transition will require dual maintenance.

**Which CLI do I change?**
### Where does my CLI belong??

If you are developing an API in any of the `neutron` repos
the client-side support must be generally located in either the `openstackclient` or `neutronclient` repos. Whether the actual code goes into one or the other repo it depends on the nature of the feature, its maturity level, and/or the depth of feedback required during the development.

The table below provides an idea of what goes where. Generally speaking, we consider Core anything that is L2 and L3 related or that it has been located in the `neutron` repo for quite sometime, e.g. QoS or Metering, or that it is available in each neutron deployment irrespective of its configuration (e.g. auto-allocated-topology). Any client feature that falls into this categorization will need to be contributed in OSC. Any other that does not, will need to go into `neutronclient`, assuming that its server-side is located in a neutron controlled repo. This is a general guideline, when in doubt, please reach out to a member of the neutron core team for clarifications.

<table>
<thead>
<tr>
<th>Networking Commands</th>
<th>OSC Plugin</th>
<th>OpenStack Project for <code>openstack</code> Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>No</td>
<td>python-openstackclient</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extension</th>
<th>Yes</th>
<th>python-neutronclient</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i.e. neutron stadium)</td>
<td>(<code>neutronclient/osc/v2/&lt;extension&gt;</code>)</td>
<td></td>
</tr>
</tbody>
</table>

| Other | Yes | Applicable project owning networking resource |

When a repo stops being under neutron governance, its client-side counterpart will have to go through deprecation. Bear in mind that for grandfathered extensions like FWaaS v1, VPNaaS, and LBaaS v1, this is not required as the `neutronclient` is already deprecated on its own.
**Which Python library do I change?**

+-------------------------------------------------+-----------------------------------------------+
| OpenStack Project for \``openstack`` Commands    | Python Library to Change                      |
+=================================================+===============================
| python-openstackclient                          | python-openstacksdk                           |
| python-neutronclient                            | python-neutronclient                          |
| Other                                           | Applicable project owning network resource    |
+-------------------------------------------------+-----------------------------------------------+

**Important:** The actual name of the command object and/or action in OSC may differ from those used by neutron in order to follow the OSC command structure and to avoid name conflicts. The `network` prefix must be used to avoid name conflicts if the command object name is highly likely to have an ambiguous meaning. Developers should get new command objects and actions approved by the OSC team before proceeding with the implementation.

The "Core" group includes network resources that provide core `neutron` project features (e.g. network, subnet, port, etc.) and not advanced features in the `neutron` project (e.g. trunk, etc.) or advanced services in separate projects (FWaaS, LBaaS, VPNaaS, dynamic routing, etc.). The "Other" group applies projects other than the core `neutron` project.

Contact the neutron PTL or core team with questions on network resource classification.

When adding or updating an `openstack` networking command to python-openstackclient, changes may first be required to the OpenStack Python SDK to support the underlying networking resource object, properties and/or actions. Once the OpenStack Python SDK changes are merged, the related OSC changes can be merged. The OSC changes may require an update to the OSC openstacksdk version in the `requirements.txt <https://github.com/openstack/python-openstackclient/blob/master/requirements.txt>`_ file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an `OSC command spec <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/specs.commands.rst>`_ which documents the new command interface before proceeding with the implementation.

Users of the neutron client's command extensions must adopt the `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>`_ system for this transition. Such users will maintain their OSC plugin within their own project and should follow the guidance in the table above to determine
which command to change.

Developer References
---------------------

* See `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`_ to determine if an ``openstack`` command is in progress.
* See `OSC plugin command list <https://docs.openstack.org/python-openstackclient/latest/cli/plugin-commands.html>`_ to determine if an ``openstack`` plugin command exists.
* See `OSC command structure <https://github.com/openstack/python-openstackclient/blob/master/doc/source/cli/commands.rst>`_ to determine the current ``openstack`` command objects, plugin objects and actions.
* See `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>`_ for information on the OSC plugin system to be used for ``neutron`` CLI extensions.
* Create an OSC blueprint: https://blueprints.launchpad.net/python-openstackclient/
* Report an OSC bug: https://bugs.launchpad.net/python-openstackclient/+filebug
* Report an OpenStack Python SDK bug: https://bugs.launchpad.net/python-openstacksdk/+filebug

..

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CLI Option Guideline
====================

This document describes the conventions of neutron CLI options.

General conventions
-------------------

#. Option names should be delimited by a hyphen instead of a underscore.
   This is the common guidelines across all OpenStack CLIs.

   * Good: `--ip-version`
   * Not Good: `--ip_version`

#. Use at least one required option for `*-create` command. If all options
   are optional, we typically use `name` field as a required option.

#. When you need to specify an ID of a resource, it is better to provide
   another way to specify the resource like `name` or other reasonable field.

#. If an attribute name in API is `foo_id`, the corresponding option
   should be `--foo` instead of `--foo-id`.

   * It is because we usually support ID and `name` to specify a resource.

#. Do not use `nargs=?` without a special reason.

   * The behavior of `nargs=?` option for python argparse is
     bit tricky and may lead to unexpected option parsing different
     from the help message. The detail is described in the
     :ref:`Background section <background-nargs>` below.

#. (option) Avoid using positional options as much as possible.

   * Positional arguments should be limited to attributes which will
     be required in the long future.

#. We honor existing options and should keep compatibilities when adding or
   changing options.

Options for boolean value
--------------------------

Use the form of `--option-name {True|False}`.

* For a new option, it is recommended.
* It is suggested to use ``common.utils.add_boolean_argument`` in an
implementation. It allows ``true``/``false`` in addition to ``True``/``False``.
* For existing options, migration to the recommended form is not necessarily
required. All backward-compatibility should be kept without reasonable
reasons.
Options for dict value
---------------------Some API attributes take a dictionary.
``--foo key1=val1,key2=val2`` is usually used.
This means ``{"key1": "val1", "key2": "val2"}`` is passed in the API layer.
Examples:
* ``--host-route destination=CIDR,nexthop=IP_ADDR`` for a subnet
* ``--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR`` for a port.
Options for list value
---------------------Some attributes take a list.
In this case, we usually use:
* Define an option per element (Use a singular form as an option name)
* Allow to specify the option multiple times
For Example, **port-create** has ``--security-group`` option.
``--security-group SG1 --security-group SG2`` generates
``{"security_groups: ["SG1", "SG2"]}`` in the API layer.
This convention applies to a case of a list of dict.
``--allocation-pool`` and ``--host-route`` for a subnet are examples.
Compatibility with extra arguments
---------------------------------*extra arguments* supports various types of option specifications.
At least the following patterns needs to be considered when defining
a new option. For more detail, see :ref:`cli_extra_arguments`.
* Normal options with value
* Boolean options : ``--foo True``, ``--bar=False``
* List options : ``--bars list=true val1 val2``, ``--bars val1 val2``
* Dict options : ``--foo type=dict key1=va1,key2=val2``

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11452


* List of Dict options : ``--bars list=true type=dict key1=val1,key2=val2 key3=val3,key4=val4``
* ``action=clear``

For normal options with value, there are four patterns to specify an option as extra arguments.

* ``--admin-state-up True`` (a space between option name and value)
* ``--admin-state-up=True`` (= between option name and value)
* ``--admin_state_up True`` (underscore is used as delimiter)
* ``--admin_state_up=True`` (underscore is used as delimiter)

.. _background:

Background
----------

There are a lot of opinions on which form of options are better or not. This section tries to capture the reason of the current choice.

Use at least one required option
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

As a convention, **neutron** CLI requires one required argument.

If all options are optional in the API level and we have ``name`` field, we usually use ``name`` as a required parameter. Requiring at least one argument has the following benefits:

* If we run ``neutron *-create`` without a required argument, we will have a brief help message without detail option help. It is convenient.
* We can avoid miss operation by just hitting ``neutron *-create``. Requiring at least one parameter is a good balance.

Even though we can change this convention to allow to create a resource without ``name`` field, it will bring confusions to existing users.

There may be opinion that it is inconsistent with API level requirement or Horizon behavior, but even if neutron CLI requires ``name`` field there is no bad impact on regular users. Considering possible confusion if we change it, it looks better to keep it as-is.

Options for Boolean value
~~~~~~~~~~~~~~~~~~~~~~~~~

* ``--enable-foo/--disable-foo`` or similar patterns (including ``--admin-state-down``) is not suggested because we need two exclusive options for one attribute in REST API. It is meaningless.
* It is not recommended to have an option only to specify non-default value. For example, we have ``--shared`` or ``--admin-state-down`` options for net-create. This form only works for ``*-create`` and does not work for ``*-update``. It leads to having different options for ``*-create`` and ``*-update``.

* A flag option like ``--enable-dhcp`` (without value) also has a problem when considering the compatibility with *extra argument*. We can specify ``--enable-dhcp True/False`` or ``--enable-dhcp=True/False`` in the *extra argument* mechanism. If we introduce ``--enable-dhcp`` (without value), the form of ``--enable-dhcp True/False`` cannot be used now. This is another reason we don't use a flag style option for a boolean parameter.

.. _background-nargs:

Avoid using nargs in positional or optional arguments
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The behavior of ``nargs='?'`` option for python argparse is bit tricky. When we use ``nargs='?'`` and if the order of command-line options is changed then the command-line parser may fail to parse the arguments correctly. Two examples of such failures are provided below.

Example 1:
This example shows how the actual behavior can differ from the provided help message. In the below block, help message at ``[5]`` says ``--bb CC`` is a valid format but the argument parsing for the same format fails at ``[7]``.

.. code-block::

   In [1]: import argparse
   In [2]: parser = argparse.ArgumentParser()
   In [3]: parser.add_argument('--bb', nargs='?')
   In [4]: parser.add_argument('cc')

   In [5]: parser.print_help()
   usage: ipython [-h] [--bb [BB]] cc

   positional arguments:
   cc

   optional arguments:
   -h, --help  show this help message and exit
   --bb [BB]

   In [6]: parser.parse_args('--bb 1 X'.split())
   Out[6]: Namespace(bb='1', cc='X')
```
In [7]: parser.parse_args('--bb X'.split())
usage: ipython [-h] [--bb [BB]] cc
ipython: error: too few arguments
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2
```

Example 2:
This example shows how fragile ``nargs='?'`` can be when user specifies
options in different order from the help message.

```
.. code-block:: console

In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--a', help='option a')
In [4]: parser.add_argument('--b', help='option b')
In [5]: parser.add_argument('x', help='positional arg X')
In [6]: parser.add_argument('y', nargs='?', help='positional arg Y')
In [7]: parser.print_help()
usage: ipython [-h] [--a A] [--b B] x [y]

positional arguments:
  x    positional arg X
  y    positional arg Y

optional arguments:
  -h, --help  show this help message and exit
  --a A       option a
  --b B       option b

In [8]: parser.parse_args('--a 1 --b 2 X Y'.split())
Out[8]: Namespace(a='1', b='2', x='X', y='Y')

In [9]: parser.parse_args('X Y --a 1 --b 2'.split())
Out[9]: Namespace(a='1', b='2', x='X', y='Y')

In [10]: parser.parse_args('X --a 1 --b 2 Y'.split())
usage: ipython [-h] [--a A] [--b B] x [y]
ipython: error: unrecognized arguments: Y
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2
```

To exit: use 'exit', 'quit', or Ctrl-D.
To exit: use 'exit', 'quit', or Ctrl-D.
Note: Most CLI users don't care about the order of the command-line options. Hence, such fragile behavior should be avoided.

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Contributor Guide
=================================

In the Contributor Guide, you will find information on neutronclient's lower level programming details or APIs as well as the transition to OpenStack client.

.. toctree::
:maxdepth: 2

  client_command_extensions
  cli_option_guide
  transition_to_osc

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Client command extension support
=================================

The client command extension adds support for extending the neutron client while considering ease of creation. Extensions strongly conform to preexisting neutron commands (/neutron/v2_0/).

A sample extension can be seen at:
neutronclient/neutron/v2_0/contrib/_fox_sockets.py

Minimum requirements from an extension
--------------------------------------

* NeutronClientExtension subclasses must have a shell_command class variable if the command is to be available to the CLI (shell.py)

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

Minimum requirements to use canonical neutron CRUD commands framework
--------------------------------------------------------------------------

Neutron commands are cliff commands, commands in extension can use their own way to finish their tasks. But if they want to make use of the canonical neutron CRUD commands framework, the extension should:

* have a class that subclasses NeutronClientExtension to provide the requisite resource name, version support, and resource collection and object paths for a resource the commands will process.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocket

* have a class that subclasses from the ClientExtensionList to provide resource object list function. This is because most commands need the list function to get object ID via neutronclient.neutron.v2_0.__init__.find_resource_by_id.
Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

* if needed, subclass ClientExtensionUpdate to implement update of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsUpdate

* if needed, subclass ClientExtensionDelete to implement deletion of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsDelete

* if needed, subclass ClientExtensionShow to get the detail of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsShow

Precedence of command loading
-------------------------------
* hard coded commands are loaded first
* external commands (installed in the environment) are loaded then

Commands that have the same name will be overwritten by commands that are loaded later. To change the execution of a command for your particular extension you only need to override the execute method.

Currently this extension support is limited to top-level resources. Parent/child relationships may be added if desired.

neutronclient.extension entry_point
-----------------------------------
To activate the commands in a specific extension module, add an entry in setup.cfg under neutronclient.extension. For example:

[entry_points]
neutronclient.extension =
    fox_sockets = neutronclient.neutron.v2_0.contrib._fox_sockets

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1.511 python-novaclient 10.1.0 :1.el7ost

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__ https://git.openstack.org/cgit/openstack/python-novaclient
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__ https://docs.openstack.org/infra/manual/developers.html#development-workflow

.. toctree::
:maxdepth: 2

  testing

Testing

The preferred way to run the unit tests is using ```tox```. There are multiple test targets that can be run to validate the code.

``tox -e pep8``

Style guidelines enforcement.
``tox -e py27``

Traditional unit testing.

``tox -e functional``

Live functional testing against an existing OpenStack instance.

Functional testing assumes the existence of a `clouds.yaml` file as supported by `os-client-config <https://docs.openstack.org/os-client-config/latest>`__.

It assumes the existence of a cloud named `devstack` that behaves like a normal DevStack installation with a demo and an admin user/tenant - or clouds named `functional_admin` and `functional_nonadmin`.

Refer to `Consistent Testing Interface`__ for more details.

__ https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

1.512 python-numexpr 2.6.1 :3.el7ost.1

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======================================
Command Class Wrappers
======================================

When we want to deprecate a command, policy says we need to alert the user. We do this with a message logged at WARNING level before any command output is emitted.

OpenStackClient command classes are derived from the `cliff` classes.
Cliff uses `setuptools` entry points for dispatching the parsed command to the respective handler classes. This lends itself to modifying the command execution at run-time.

The obvious approach to adding the deprecation message would be to just add the message to the command class `take_action()` method directly. But then the various deprecations are scattered throughout the code base. If we instead wrap the deprecated command class with a new class we can put all of the wrappers into a separate, dedicated module. This also lets us leave the original class unmodified and puts all of the deprecation bits in one place.

This is an example of a minimal wrapper around a command class that logs a deprecation message as a warning to the user then calls the original class.

* Subclass the deprecated command.

* Set class attribute `deprecated` to `True` to signal cliff to not emit help text for this command.

* Log the deprecation message at WARNING level and refer to the replacement for the deprecated command in the log warning message.

* Change the entry point class in `setup.cfg` to point to the new class.

Example Deprecation Class
------------------------

```python
class ListFooOld(ListFoo):
    """List resources""

    # This notifies cliff to not display the help for this command
    deprecated = True

    log = logging.getLogger('deprecated')

    def take_action(self, parsed_args):
        self.log.warning(
            "%s is deprecated, use 'foobar list'",
            getattr(self, 'cmd_name', 'this command'),
        )
        return super(ListFooOld, self).take_action(parsed_args)
```

Command Options
----------------

OpenStackClient commands all have a set of zero or more options unique to
the command, however there are of course ways in which these options are common and consistent across all of the commands that include them.

These are the set of guidelines for OSC developers that help keep the interface and commands consistent.

In some cases (like the boolean variables below) we use the same pattern for defining and using options in all situations. The alternative of only using it when necessary leads to errors when copy-n-paste is used for a new command without understanding why or why not that instance is correct.

The :ref:`hig` describes the guidelines for option names and usage.
In short:

* All option names shall be GNU-style long names (two leading dashes).
* Some global options may have short names, generally limited to those defined in support libraries such as `--cliff`.

General Command Options
=======================

Boolean Options
---------------

Boolean options for any command that sets a resource state, such as `enabled` or `public`, shall always have both positive and negative options defined. The names of those options shall either be a naturally occurring pair of words (in English) or a positive option and a negative option with `no-` prepended (such as in the traditional GNU option usage) like `--share` and `--no-share`.

In order to handle those APIs that behave differently when a field is set to `None` and when the field is not present in a passed argument list or dict, each of the boolean options shall set its own variable to `True` as part of a mutually exclusive group, rather than the more common configuration of setting a single destination variable `True` or `False` directly. This allows us to detect the situation when neither option is present (both variables will be `False`) and act accordingly for those APIs where this matters.

This also requires that each of the boolean values be tested in the `take_action()` method to correctly set (or not) the underlying API field values.

.. option:: --enable

   Enable <resource> (default)

.. option:: --disable
Disable <resource>

Implementation
~~~~~~~~~~~~~~~~~~

The parser declaration should look like this:

.. code-block:: python

    enable_group = parser.add_mutually_exclusive_group()
    enable_group.add_argument(
        '--enable',
        action='store_true',
        help=_('Enable <resource> (default)'),
    )
    enable_group.add_argument(
        '--disable',
        action='store_true',
        help=_('Disable <resource>'),
    )

An example handler in `take_action()`:

.. code-block:: python

    # This leaves 'enabled' undefined if neither option is present
    if parsed_args.enable:
        kwargs['enabled'] = True
    if parsed_args.disable:
        kwargs['enabled'] = False

Options with Choices
---------------------

Some options have a specific set of values (or choices) that are valid. These choices may be validated by the CLI. If the underlying API is stable and the list of choices are unlikely to change then the CLI may validate the choices. Otherwise, the CLI must defer validation of the choices to the API. If the option has a default choice then it must be documented.

Having the CLI validate choices will be faster and may provide a better error message for the user if an invalid choice is specified (for example: `"argument --test: invalid choice: 'choice4' (choose from 'choice1', 'choice2', 'choice3')"`). The trade-off is that CLI changes are required in order to take advantage of new choices.
An example parser declaration:

```python
choice_option.add_argument(  
    '--test',  
    metavar='<test>',  
    choices=['choice1', 'choice2', 'choice3'],  
    help=_('Test type (choice1, choice2 or choice3)'),
)
```

Options with Multiple Values
-------------------------------

Some options can be repeated to build a collection of values for a property. Adding a value to the collection must be provided via the ``set`` action. Removing a value from the collection must be provided via an ``unset`` action. As a convenience, removing all values from the collection may be provided via a ``--no`` option on the ``set`` action and a ``--all`` option on ``unset`` action. If both ``--no`` option and option are specified, the values specified on the command would overwrite the collection property instead of appending on the ``set`` action. The ``--all`` option must be part of a mutually exclusive group with the related property option on the ``unset`` action, overwrite case don't exist in ``unset`` action.

An example behavior for ``set`` action:

Append:

```bash
object set --example-property xxx
```

Overwrite:

```bash
object set --no-example-property --example-property xxx
```

The example below assumes a property that contains a list of unique values. However, this example can also be applied to other collections using the appropriate parser action and action implementation (e.g. a dict of key/value pairs). Implementations will vary depending on how the REST API handles adding/removing values to/from the collection and whether or not duplicate values are allowed.
Implementation
~~~~~~~~~~~~~~

An example parser declaration for `set` action:

```python
parser.add_argument(
    '--no-example-property',
    dest='no_example_property',
    action='store_true',
    help=_('Remove all example properties for this <resource> '  
         '(specify both --no-example-property and --example-property' 
         ' to remove the current properties before setting' 
         ' new properties.')),
)
parser.add_argument(
    '--example-property',
    metavar='<example-property>',
    dest='example_property',
    action='append',
    help=_('Example property for this <resource> '  
          '(repeat option to set multiple properties)'),
)
```

Please make `--no-example-property` be shown in front of `--example-property` in the help, like above, that help make users aware of the processing order.

An example handler in `take_action()` for `set` action:

```python
if parsed_args.no_example_property and parsed_args.example_property:
    kwargs['example_property'] = parsed_args.example_property
elif parsed_args.no_example_property:
    kwargs['example_property'] = []
else:
    kwargs['example_property'] = \
        resource_example_property + parsed_args.example_property
```

An example parser declaration for `unset` action:

```python
example_property_group = parser.add_mutually_exclusive_group()
example_property_group.add_argument(
    '--example-property',
    metavar='<example-property>',
```
dest='example_property',
action='append',
help=_('Example property for this <resource> ' 
' (repeat option to remove multiple properties)'),
)
example_property_group.add_argument( 
'--all-example-property', 
dest='all_example_property', 
action='store_true', 
help=_('Remove all example properties for this <resource>'),
)

An example handler in `take_action()` for `unset` action:

```python
if parsed_args.example_property:
    kwargs['example_property'] = \
    list(set(resource_example_property) - \
         set(parsed_args.example_property))
if parsed_args.all_example_property:
    kwargs['example_property'] = []
```

Required Options
----------------

Some options have no default value and the API does not allow them to be 'None', then these options are always required when users use the command to which these options belong.

Required options must be validated by the CLI to avoid omissions. The CLI validation may provide an error message for the user if a required option is not specified.
(For example: `error: argument --test is required`)

```
.. option:: --test

Test option (required)
```

Implementation
~~~~~~~~~~~~~~

The parser declaration should look like this:

```python
parser.add_argument( 
'--test',
```
metavar='test',
required=True,
help=_('Test option (required)'),
)

List Command Options
---------------------

Additional Fields
-----------------

Most list commands only return a subset of the available fields by default. Additional fields are available with the `--long` option. All list commands should allow `--long` even if they return all fields by default.

.. option:: --long

List additional fields in output

Implementation
--------------

The parser declaration should look like this:

.. code-block:: python

    parser.add_argument(
        '--long',
        action='store_true',
        default=False,
        help='List additional fields in output',
    )

Pagination
---------

There are many ways to do pagination, some OpenStack APIs support it, some don't. OpenStackClient attempts to define a single common way to specify pagination on the command line.

.. option:: --marker <resource>

Anchor for paging (name or ID)

.. option:: --limit <num-resources>

Limit number of <resource> returned (*integer*)
The parser declaration should look like this:

```python
parser.add_argument(
    "--marker",
    metavar="<resource>",
    help="Anchor for paging (name or ID)",
)
```

```python
parser.add_argument(
    "--limit",
    metavar="<num-resources>",
    type=int,
    help="Limit the number of <resource> returned",
)
```

.. _command-beta:

============
Command Beta
============

OpenStackClient releases do not always coincide with OpenStack releases. This creates challenges when developing new OpenStackClient commands for the current OpenStack release under development since there may not be an official release of the REST API enhancements necessary for the command. In addition, backwards compatibility may not be guaranteed until an official OpenStack release.

To address these challenges, an OpenStackClient command may be labeled as a beta command according to the guidelines below. Such commands may introduce backwards incompatible changes and may use REST API enhancements not yet released.

This also applies to command options associated with the beta command object.

See the examples below on how to label an entire command or a specific option as a beta by updating the documentation and implementation.

The initial release note must label the new command or option as a beta. No further release notes are required until the command or option is no longer a beta. At which time, the beta label or the command or option itself must be removed and a new release note must be provided.
Beta Command Example

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

Documentation

~~~~~~~~~~~~~~

The command documentation must label the command as a beta.

even listed

++++++++++++

List examples

.. caution:: This is a beta command and subject to change.
    Use global option ``--os-beta-command`` to enable this command.

.. program:: example list
.. code:: bash

    openstack example list

Help

~~~~

The command help must label the command as a beta.

.. code-block:: python

    class ShowExample(command.ShowOne):
        """Display example details

        (Caution: This is a beta command and subject to change.
        Use global option --os-beta-command to enable this command)
        """

Implementation

~~~~~~~~~~~~~~

The command must raise a ``CommandError`` exception if beta commands are not enabled via ``--os-beta-command`` global option.

.. code-block:: python

    def take_action(self, parsed_args):
        self.validate_os_beta_command_enabled()
Beta Option Example

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

Documentation

~~~~~~~~~~~~~~

The option documentation must label the option as a beta.

.. option:: --example <example>

Example

.. caution:: This is a beta command option and subject to change. Use global option `--os-beta-command` to enable this command option.

Implementation

~~~~~~~~~~~~~~

The option must not be added if beta commands are not enabled via `--os-beta-command` global option.

.. code-block:: python

   def get_parser(self, prog_name):
      if self.app.options.os_beta_command:
         parser.add_argument(
            '--example',
            metavar='<example>',
            help=_('Example'))

============

Command Logs

============

Logger usage in OpenStackClient is not exactly the same as those in other OpenStack projects. The following basic rules should be followed.

1. OpenStackClient uses python standard logging library instead of oslo.log so that it will depend on oslo as little as possible.

2. All logs except debug log need to be translated. The log message strings that need to be translated should follow the rule of i18n guidelines: https://docs.openstack.org/oslo.i18n/latest/user/guidelines.html

3. There are mainly two kinds of logs in OpenStackClient: command specific log and general log. Use different logger to record them. The examples below will show the detail.
Command specific log
====================

Command specific logs are those messages that used to record info, warning and error generated from a specific command. OpenStackClient uses the logger of the module the command belongs to to record the command specific logs.

Example
~~~~~~~

This example shows how to log command specific logs in OpenStackClient.

.. code-block:: python

    import logging
    from openstackclient.i18n import _

    LOG = logging.getLogger(__name__)  # Get the logger of this module

    ## ...
    LOG.error(_("Error message"))
    LOG.warning(_("Warning message"))
    LOG.info(_("Info message"))
    LOG.debug("Debug message")  # Debug messages do not need to be translated

    ## ...

General log
===========

General logs are those messages that not specific to any single command. Use the logger of `openstackclient.shell` to record them. In each command class, we can simply get this logger by `self.app.log`.

Example
~~~~~~~

This example shows how to log general logs in OpenStackClient.

.. code-block:: python

    from openstackclient.i18n import _
---

Developing with OpenStackClient

Communication

Meetings

The OpenStackClient team meets regularly on every Thursday. For details please refer to the `OpenStack IRC meetings` page.

`OpenStack IRC meetings`: http://eavesdrop.openstack.org/#OpenStackClient_Team_Meeting

Testing

Tox prerequisites and installation

Install the prerequisites for Tox:

* On Ubuntu or Debian:

  code-block:: bash

  $ apt-get install gcc gettext python-dev libxml2-dev libxslt1-dev \ zlib1g-dev

  You may need to use pip install for some packages.

* On RHEL or CentOS including Fedora:

  code-block:: bash

  $ yum install gcc python-devel libxml2-devel libxslt-devel

* On openSUSE or SUSE Linux Enterprise:
Install python-devel:

```bash
$ zypper install gcc python-devel libxml2-devel libxslt-devel
```

Install python-tox:

```bash
$ pip install tox
```

To run the full suite of tests maintained within OpenStackClient.

```bash
$ tox
```

.. NOTE::

   The first time you run `tox`, it will take additional time to build virtualenvs. You can later use the `-r` option with `tox` to rebuild your virtualenv in a similar manner.

To run tests for one or more specific test environments (for example, the most common configuration of Python 2.7 and PEP-8), list the environments with the `-e` option, separated by spaces:

```bash
$ tox -e py27,pep8
```

See `tox.ini` for the full list of available test environments.

**Running functional tests**

OpenStackClient also maintains a set of functional tests that are optimally designed to be run against OpenStack's gate. Optionally, a developer may choose to run these tests against any OpenStack deployment, however depending on the services available, results vary.

To run the entire suite of functional tests:

```bash
$ tox -e functional
```

To run a specific functional test:
Running with PDB

Using PDB breakpoints with `tox` and `testr` normally does not work since the tests fail with a `BdbQuit` exception rather than stopping at the breakpoint.

To run with PDB breakpoints during testing, use the `debug` `tox` environment rather than `py27`. For example, passing a test name since you will normally only want to run the test that hits your breakpoint:

```
$ tox -e debug openstackclient.tests.identity.v3.test_group
```

For reference, the `debug` `tox` environment implements the instructions

```
.. _`debug`: https://wiki.openstack.org/wiki/Testr#Debugging_(pdb)_Tests
```

Building the Documentation

The documentation is generated with Sphinx using the `tox` command. To create HTML docs, run the commands:

```
$ tox -e docs
```

The resultant HTML will be in the `doc/build/html` directory.

Release Notes

The release notes for a patch should be included in the patch. See the `Project Team Guide` for more information on using reno in OpenStack.

```
.. _`Project Team Guide`: http://docs.openstack.org/project-team-guide/release-management.html#managing-release-notes
```

If any of the following applies to the patch, a release note is required:

* The deployer needs to take an action when upgrading
* The plugin interface changes
* A new feature is implemented
* A command or option is removed
* Current behavior is changed
* A security bug is fixed

Reno is used to generate release notes. Use the commands:

```bash
$ tox -e venv -- reno new <bug-,bp-,whatever>
```

Then edit the sample file that was created and push it with your change.

To run the commands and see results:

```bash
$ git commit  # Commit the change because reno scans git log.
$ tox -e releasenotes
```

At last, look at the generated release notes files in `releasenotes/build/html` in your browser.

Testing new code
----------------

If a developer wants to test new code (feature, command or option) that they have written, OpenStackClient may be installed from source by running the following commands in the base directory of the project:

```bash
$ python setup.py develop
```

or

```bash
$ pip install -e .
```

Standardize Import Format

```
.. _`Import Order Guide`: https://docs.openstack.org/hacking/latest/user/hacking.html#imports

The import order shows below:
Example
~~~~~~

.. code-block:: python

    import copy
    import fixtures
    import mock
    import os

    from osc_lib.api import auth
    from osc_lib import utils
    import six
    from openstackclient import shell
    from openstackclient.tests import utils

.. _hig:

===================== Human Interface Guide ======================

*Note: This page covers the OpenStackClient CLI only but looks familiar because it was derived from the Horizon HIG.*

Overview
========

What is a HIG?
The Human Interface Guidelines document was created for OpenStack developers in order to direct the creation of new OpenStackClient command interfaces.

Personas
=========

Personas are archetypal users of the system. Keep these types of users in mind when designing the interface.

Alice the admin
Alice is an administrator who is responsible for maintaining the OpenStack cloud installation. She has many years of experience with Linux systems administration.

Darren the deployer
-------------------

Darren is responsible for doing the initial OpenStack deployment on the host machines.

Emile the end-user
------------------

Emile uses the cloud to do software development inside of the virtual machines. She uses the command-line tools because she finds it quicker than using the dashboard.

Principles
==========

The principles established in this section define the high-level priorities to be used when designing and evaluating interactions for the OpenStack command line interface. Principles are broad in scope and can be considered the philosophical foundation for the OpenStack experience; while they may not describe the tactical implementation of design, they should be used when deciding between multiple courses of design.

A significant theme for designing for the OpenStack experience concerns focusing on common uses of the system rather than adding complexity to support functionality that is rarely used.

Consistency
-----------

Consistency between OpenStack experiences will ensure that the command line interface feels like a single experience instead of a jumble of disparate products. Fractured experiences only serve to undermine user expectations about how they should interact with the system, creating an unreliable user experience. To avoid this, each interaction and visual representation within the system must be used uniformly and predictably. The architecture and elements detailed in this document will provide a strong foundation for establishing a consistent experience.

Example Review Criteria
------------------------
* Do the command actions adhere to a consistent application of actions?
* Has a new type of command subject or output been introduced?
* Does the design use command elements (options and arguments) as defined?
  (See Core Elements.)
* Can any newly proposed command elements (actions or subjects) be accomplished
  with existing elements?

* Does the design adhere to the structural model of the core experience?
  (See Core Architecture.)
* Are any data objects displayed or manipulated in a way contradictory to how
  they are handled elsewhere in the core experience?

Simplicity
----------

To best support new users and create straight forward interactions, designs
should be as simple as possible. When crafting new commands, designs should
minimize the amount of noise present in output: large amounts of
nonessential data, overabundance of possible actions and so on. Designs should
focus on the intent of the command, requiring only the necessary components
and either removing superfluous elements or making
them accessible through optional arguments. An example of this principle occurs
in OpenStack's use of tables: only the most often used columns are shown by
default. Further data may be accessed through the output control options,
allowing users to specify the types of data that they find useful in their
day-to-day work.

Example Review Criteria
~~~~~~~~~~~~~~~~~~~~~~~

* Can options be used to combine otherwise similar commands?
* How many of the displayed elements are relevant to the majority of users?
* If multiple actions are required for the user to complete a task, is each
  step required or can the process be more efficient?

User-Centered Design
---------------------

Commands should be design based on how a user will interact with the system
and not how the system's backend is organized. While database structures and
APIs may define what is possible, they often do not define good user
experience; consider user goals and the way in which users will want to
interact with their data, then design for these work flows and mold the
interface to the user, not the user to the interface.

Commands should be discoverable via the interface itself.
To determine a list of available commands, use the :code:`-h` or :code:`--help` options:

```bash
$ openstack --help
```

For help with an individual command, use the :code:`help` command:

```bash
$ openstack help server create
```

Example Review Criteria

* How quickly can a user figure out how to accomplish a given task?
* Has content been grouped and ordered according to usage relationships?
* Do work flows support user goals or add complexity?

Transparency

Make sure users understand the current state of their infrastructure and interactions. For example, users should be able to access information about the state of each machine/virtual machine easily, without having to actively seek out this information. Whenever the user initiates an action, make sure a confirmation is displayed[1] to show that an input has been received. Upon completion of a process, make sure the user is informed. Ensure that the user never questions the state of their environment.

[1] This goes against the common UNIX philosophy of only reporting error conditions and output that is specifically requested.

Example Review Criteria

* Does the user receive feedback when initiating a process?
* When a process is completed?
* Does the user have quick access to the state of their infrastructure?

Architecture

Command Structure
OpenStackClient has a consistent and predictable format for all of its commands.

* The top level command name is `openstack`
* Sub-commands take the form:

```
.. code-block:: bash

    openstack [<global-options>] <object-1> <action> [<object-2>] [<command-arguments>]
```

Subcommands shall have three distinct parts to its commands (in order that they appear):

* global options
* command object(s) and action
* command options and arguments

Output formats:

* user-friendly tables with headers, etc
* machine-parsable delimited

Global Options
~~~~~~~~~~~~~~

Global options are global in the sense that they apply to every command invocation regardless of action to be performed. They include authentication credentials and API version selection. Most global options have a corresponding environment variable that may also be used to set the value. If both are present, the command-line option takes priority. The environment variable names are derived from the option name by dropping the leading dashes ('--'), converting each embedded dash ('-') to an underscore ('_'), and converting to upper case.

* Global options shall always have a long option name, certain common options may also have short names. Short names should be reserved for global options to limit the potential for duplication and multiple meanings between commands given the limited set of available short names.
* All long options names shall begin with two dashes ('--') and use a single dash ('-') internally between words (e.g., `--like-this`). Underscores ('_') shall not be used in option names.
* Authentication options conform to the common CLI authentication guidelines in `ref:` authentication`

For example, `--os-username` can be set from the environment via `OS_USERNAME`.

```
--help
++++++
```

The standard `--help` global option displays the documentation for invoking
the program and a list of the available commands on standard output. All other options and commands are ignored when this is present. The traditional short form help option (`-h`) is also available.

--version
+++++++

The standard `--version` option displays the name and version on standard output. All other options and commands are ignored when this is present.

Command Object(s) and Action
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Commands consist of an object described by one or more words followed by an action. Commands that require two objects have the primary object ahead of the action and the secondary object after the action. Any positional arguments identifying the objects shall appear in the same order as the objects. In badly formed English it is expressed as "(Take) object1 (and perform) action (using) object2 (to it)."

<object-1> <action> [<object-2>]

Examples:

* :code:`group add user <group> <user>`
* :code:`volume type list`   # Note that :code:`volume type` is a two-word single object

The :code:`help` command is unique as it appears in front of a normal command and displays the help text for that command rather than execute it.

Object names are always specified in command in their singular form. This is contrary to natural language use.

Command Arguments and Options
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Each command may have its own set of options distinct from the global options. They follow the same style as the global options and always appear between the command and any positional arguments the command requires.

Command options shall only have long names. The small range of available short names makes it hard for a single short option name to have a consistent meaning across multiple commands.

Option Forms
+++++++++++++

* **boolean**: boolean options shall use a form of :code:`--<true>|--<false>` (preferred) or :code:`--<option>|--no-<option>`. For example, the
The default command output is pretty-printed using the Python `prettytable` module.

Machine-parsable output format may be specified with the `--format` option to `list` and `show` commands. `list` commands have an option (`--format csv`) for CSV output and `show` commands have an option (`--format shell`) for the shell variable assignment syntax of `var="value"`. In both cases, all data fields are quoted with "".

Help Commands
-------------

The help system is considered separately due to its special status among the commands. Rather than performing tasks against a system, it provides information about the commands available to perform those tasks. The format of the `help` command therefore varies from the form for other commands in that the `help` command appears in front of the first object in the command.

The options `--help` and `--h` display the global options and a list of the supported commands. Note that the commands shown depend on the API versions that are in effect; i.e. if `--os-identity-api-version=3` is present Identity API v3 commands are shown.

Examples
========

The following examples depict common command and output formats expected to be produces by the OpenStack client.

Authentication
---------------

Using global options:

.. code-block:: bash

    $ openstack --os-tenant-name ExampleCo --os-username demo --os-password secret --os-auth-url http://localhost:5000/v2.0 server show appweb01

    +------------------------+-----------------------------------------------------+
    |        Property        |                Value                                |
    +------------------------+-----------------------------------------------------+
    | OS-DCF:diskConfig      | MANUAL                                              |
Using environment variables:

```
$ export OS_TENANT_NAME=ExampleCo
$ export OS_USERNAME=demo
$ export OS_PASSWORD=secret
$ export OS_AUTH_URL=http://localhost:5000/v2.0
$ openstack server show appweb01
```

```
+------------------------+-----------------------------------------------------+
|        Property        |                Value                                |
+------------------------+-----------------------------------------------------+
| OS-DCF:diskConfig      | MANUAL                                              |
| OS-EXT-STS:power_state | 1                                                   |
| flavor                 | m1.small                                            |
| id                     | dcbc2185-ba17-4f81-95a9-c3fae9b2b042                |
| image                  | Ubuntu 12.04 (754c231e-ade2-458c-9f91-c8df107ff7ef) |
| keyname                | demo-key                                            |
| name                   | appweb01                                            |
| private_address        | 10.4.128.13                                         |
| status                 | ACTIVE                                              |
| user                   | demo                                                |
+------------------------+-----------------------------------------------------+
```

Machine Output Format

```
Using the csv output format with a list command:

```
$ openstack server list --format csv
"ID","Name","Status","Private_Address"
"ead97d84-6988-47fc-9637-3564fc366c4b","appweb01","ACTIVE","10.4.128.13"
```

Using the show command options of shell output format and adding a prefix of `my_` to avoid collisions with existing environment variables:
.. code-block:: bash

    $ openstack server show --format shell --prefix my_appweb01
    my_OS-DCF:diskConfig="MANUAL"
    my_OS-EXT-STS:power_state="1"
    my_flavor="m1.small"
    my_id="dcbc2185-ba17-4f81-95a9-c3fa9b2042"
    my_image="Ubuntu 12.04 (754c231e-ade2-458c-9f91-c8df107ff7ef)"
    my_keyname="demo-key"
    my_name="appweb01"
    my_private_address="10.4.128.13"
    my_status="ACTIVE"
    my_user="demo"

Command Errors
===============

Handling errors in OpenStackClient commands is fairly straightforward. An exception is thrown and handled by the application-level caller.

Note: There are many cases that need to be filled out here. The initial version of this document considers the general command error handling as well as the specific case of commands that make multiple REST API calls and how to handle when one or more of those calls fails.

General Command Errors
========================

The general pattern for handling OpenStackClient command-level errors is to raise a CommandError exception with an appropriate message. This should include conditions arising from arguments that are not valid/allowed (that are not otherwise enforced by \``argparse``\) as well as errors arising from external conditions.

External Errors
---------------

External errors are a result of things outside OpenStackClient not being as expected.

Example
~~~~~~~

This example is taken from \``keypair create`` where the \``--public-key`` option specifies a file containing the public key to upload. If the file is not found, the IOError exception is trapped and a more specific CommandError exception is raised that includes the name of the file that was attempted to be opened.
class CreateKeypair(command.ShowOne):
    """Create new public key"""

    def take_action(self, parsed_args):
        compute_client = self.app.client_manager.compute
        public_key = parsed_args.public_key
        if public_key:
            try:
                with io.open(
                    os.path.expanduser(parsed_args.public_key),
                    "rb"
                ) as p:
                    public_key = p.read()
            except IOError as e:
                msg = _("Key file %s not found: %s")
                raise exceptions.CommandError(
                    msg % (parsed_args.public_key, e),
                )

            keypair = compute_client.keypairs.create(
                parsed_args.name,
                public_key=public_key,
            )

    REST API Errors
    ================

    Most commands make a single REST API call via the supporting client library
    or SDK. Errors based on HTML return codes are usually handled well by default,
    but in some cases more specific or user-friendly messages need to be logged.
    Trapping the exception and raising a CommandError exception with a useful
    message is the correct approach.

    Multiple REST API Calls
    -------------------------

    Some CLI commands make multiple calls to library APIs and thus REST APIs.
    Most of the time these are `create` or `set` commands that expect to add or
    change a resource on the server. When one of these calls fails, the behaviour
    of the remainder of the command handler is defined as such:
* Whenever possible, all API calls will be made. This may not be possible for specific commands where the subsequent calls are dependent on the results of an earlier call.

* Any failure of an API call will be logged for the user

* A failure of any API call results in a non-zero exit code

* In the cases of failures in a `create` command a follow-up mode needs to be present that allows the user to attempt to complete the call, or cleanly remove the partially-created resource and re-try.

The desired behaviour is for commands to appear to the user as idempotent whenever possible, i.e. a partial failure in a `set` command can be safely retried without harm. `create` commands are a harder problem and may need to be handled by having the proper options in a set command available to allow recovery in the case where the primary resource has been created but the subsequent calls did not complete.

Example 1
~~~~~~~~~~

This example is taken from the `volume snapshot set` command where `--property` arguments are set using the volume manager's `set_metadata()` method, `--state` arguments are set using the `reset_state()` method, and the remaining arguments are set using the `update()` method.

```python
.. code-block:: python

class SetSnapshot(command.Command):
    """Set snapshot properties""

    def take_action(self, parsed_args):
        volume_client = self.app.client_manager.volume
        snapshot = utils.find_resource(
            volume_client.volume_snapshots,
            parsed_args.snapshot,
        )

        kwargs = {}
        if parsed_args.name:
            kwargs['name'] = parsed_args.name
        if parsed_args.description:
            kwargs['description'] = parsed_args.description

        result = 0
```
if parsed_args.property:
    try:
        volume_client.volume_snapshots.set_metadata(
            snapshot.id, 
            parsed_args.property, 
        )
    except SomeException:  # Need to define the exceptions to catch here
        LOG.error(_("Property set failed"))
        result += 1

if parsed_args.state:
    try:
        volume_client.volume_snapshots.reset_state(
            snapshot.id, 
            parsed_args.state, 
        )
    except SomeException:  # Need to define the exceptions to catch here
        LOG.error(_("State set failed"))
        result += 1

try:
    volume_client.volume_snapshots.update(
        snapshot.id,
        **kwargs
    )
except SomeException:  # Need to define the exceptions to catch here
    LOG.error(_("Update failed"))
    result += 1

    # NOTE(dtroyer): We need to signal the error, and a non-zero return code, 
    # without aborting prematurely
    if result > 0:
        raise SomeNonFatalException

Example 2
~~~~~~~

This example is taken from the ``network delete`` command which takes multiple
networks to delete. All networks will be deleted in a loop, which makes
multiple ``delete_network()`` calls.

.. code-block:: python

    class DeleteNetwork(common.NetworkAndComputeCommand):
        """Delete network(s)""

        def update_parser_common(self, parser):
            parser.add_argument(

'network',
metavar="<network>",
nargs="+",
help=(_('Network(s) to delete (name or ID)'))
)
return parser

def take_action(self, client, parsed_args):
    ret = 0

    for network in parsed_args.network:
        try:
            obj = client.find_network(network, ignore_missing=False)
            client.delete_network(obj)
        except Exception:
            LOG.error(_('Failed to delete network with name 
            or ID %s.'), network)
            ret += 1

    if ret > 0:
        total = len(parsed_args.network)
        msg = _('Failed to delete %ret of %total networks.
        )
        % {'ret': ret, 'total': total}
        raise exceptions.CommandError(msg)

.. _plugins:

Plugins
========

The OpenStackClient plugin system is designed so that the plugin need only be properly installed for OSC to find and use it. It utilizes the `setuptools` entry points mechanism to advertise to OSC the plugin module and supported commands.

Adoption
========

OpenStackClient promises to provide first class support for the following OpenStack services: Compute, Identity, Image, Object Storage, Block Storage and Network (core objects). These services are considered essential to any OpenStack deployment.

Other OpenStack services, such as Orchestration or Telemetry may create an OpenStackClient plugin. The source code will not be hosted by OpenStackClient.

The following is a list of projects that are an OpenStackClient plugin.

---

Open Source Used In Virtualized Infrastructure Manager 3.4.0

11515
- aodhclient
- gnocchiclient
- python-barbicanclient
- python-congressclient
- python-designateclient
- python-heatclient
- python-ironicclient
- python-ironic-inspector-client
- python-karborclient
- python-mistralclient
- python-murano-client
- python-neutronclient
- python-octaviaclient
- python-rsdclient
- python-saharaclient
- python-searchlightclient
- python-senlinclient
- python-tripleoclient
- python-troveclient
- python-watcherclient
- python-zaqarclient
- python-zunclient

\*\* Note that some clients are not listed in global-requirements.

\*\*\* Project contains advanced network services.

The following is a list of projects that are not an OpenStackClient plugin.

- python-magnumclient
- python-ceilometerclient
- python-solumclient

Implementation
==============

Client module
-----------

Plugins are discovered by enumerating the entry points
found under :py:mod:`openstack.cli.extension` and initializing the specified
client module.

.. code-block:: ini

    [entry_points]
    openstack.cli.extension =
oscplugin = oscplugin.client

The client module must define the following top-level variables:

* ``API_NAME`` - A string containing the plugin API name; this is
  the name of the entry point declaring the plugin client module
  (`oscplugin = ...`) in the example above and the group name for
  the plugin commands (`openstack.oscplugin.v1 =` in the example below).
  OSC reserves the following API names: `compute`, `identity`,
  `image`, `network`, `object_store` and `volume`.
* ``API_VERSION_OPTION`` (optional) - If set, the name of the API
  version attribute; this must be a valid Python identifier and
  match the destination set in ``build_option_parser()``.
* ``API_VERSIONS`` - A dict mapping a version string to the client class

The client module must implement the following interface functions:

* ``build_option_parser(parser)`` - Hook to add global options to the parser
* ``make_client(instance)`` - Hook to create the client object

OSC enumerates the plugin commands from the entry points in the usual manner
defined for the API version:

.. code-block:: ini

    openstack.oscplugin.v1 =
        plugin_list = oscplugin.v1.plugin:ListPlugin
        plugin_show = oscplugin.v1.plugin:ShowPlugin

Note that OSC defines the group name as `openstack.<api-name>.v<version>`
so the version should not contain the leading 'v' character.

.. code-block:: python

    from osc_lib import utils

    DEFAULT_API_VERSION = '1'

    # Required by the OSC plugin interface
    API_NAME = 'oscplugin'
    API_VERSION_OPTION = 'os_oscplugin_api_version'
    API_VERSIONS = {
        '1': 'oscplugin.v1.client.Client',
    }

    # Required by the OSC plugin interface
    def make_client(instance):
Returns a client to the ClientManager

Called to instantiate the requested client version. instance has any available auth info that may be required to prepare the client.

:param ClientManager instance: The ClientManager that owns the new client

plugin_client = utils.get_client_class(
    API_NAME,
    instance._api_version[API_NAME],
    API_VERSIONS)

client = plugin_client()
return client

# Required by the OSC plugin interface
def build_option_parser(parser):
    """Hook to add global options

    Called from openstackclient.shell.OpenStackShell.__init__() after the built-in parser has been initialized. This is where a plugin can add global options such as an API version setting.

    :param argparse.ArgumentParser parser: The parser object that has been initialized by OpenStackShell.
    """
    parser.add_argument(
        '--os-oscplugin-api-version',
        metavar='<oscplugin-api-version>',
        help='OSC Plugin API version, default='+DEFAULT_API_VERSION+' (Env: OS_OSCPLUGIN_API_VERSION)')
    return parser

Client usage of OSC interfaces
-------------------------------

OSC provides the following interfaces that may be used to implement the plugin commands:

.. code-block:: python

    # osc-lib interfaces available to plugins:
    from osc_lib.cli import parseractions
    from osc_lib.command import command
    from osc_lib import exceptions
    from osc_lib import logs
    from osc_lib import utils
class DeleteMypluginobject(command.Command):
    """Delete mypluginobject""
    
    ...

def take_action(self, parsed_args):
    # Client manager interfaces are available to plugins.
    # This includes the OSC clients created.
    client_manager = self.app.client_manager
    
    ...

    return

OSC provides the following interfaces that may be used to implement
unit tests for the plugin commands:

.. code-block:: python

    # OSC unit test interfaces available to plugins:
    from openstackclient.tests import fakes
    from openstackclient.tests import utils

    ...

Requirements
------------

OSC should be included in the plugin's `test-requirements.txt` if
the plugin can be installed as a library with the CLI being an
optional feature (available when OSC is also installed).

OSC should not appear in `requirements.txt` unless the plugin project
wants OSC and all of its dependencies installed with it. This is
specifically not a good idea for plugins that are also libraries
installed with OpenStack services.

.. code-block:: ini

    python-openstackclient>=X.Y.Z # Apache-2.0

Checklist for adding new OpenStack plugins
============================================

Creating the initial plugin described above is the first step. There are a few
more steps needed to fully integrate the client with openstackclient.
Add the command checker to your CI
---------------------------------  
#. Add `openstackclient-plugin-jobs` to the list of job templates for your project.  
These jobs ensure that all plugin libraries are co-installable with  
`python-openstackclient` and checks for conflicts across all OpenStackClient  
plugins, such as duplicated commands, missing entry points, or other overlaps.

#. Add your project to the `required-projects` list in the `.zuul.yaml` file  
in the `openstack/openstackclient` repo.

Changes to python-openstackclient
---------------------------------  
#. In `doc/source/plugins.rst`, update the `Adoption` section to reflect the  
status of the project.

#. Update `doc/source/commands.rst` to include objects that are defined by  
footoclient's new plugin.

#. Update `doc/source/plugin-commands.rst` to include the entry point defined  
in footoclient. We use `sphinxext` to automatically document commands that  
are used.

#. Update `test-requirements.txt` to include footoclient. This is necessary  
to auto-document the commands in the previous step.

.. _sphinxext: https://docs.openstack.org/stevedore/latest/user/sphinxext.html

Contributor Documentation
--------------------------

.. toctree::
   :maxdepth: 1

   developing
   command-beta
   command-options
   command-wrappers
   command-errors
   command-logs
   specs/commands
   plugins
   humaninterfaceguide
   api/modules

network topology
A **network topology** shows a topological graph about devices which connect to the specific network. Also, it will return availability information for each individual device within the network as well. One other thing to note is that it is the intention for OSC to collect data from existing REST APIs.

Network v2

**network topology list**

List network topologies

.. program:: network topology list
   .. code:: bash

   openstack network topology list
      [--project <project>]

.. option:: --project <project>

List network topologies for given project
(name or ID)

**network topology show**

Show network topology details

.. program:: network topology show
   .. code:: bash

   openstack network topology show
      <network>

.. network_topology_show-network:
   .. describe:: <network>

   Show network topology for a specific network (name or ID)

This is a specification for the `example` command object. It is not intended to be a complete template for new commands since other actions, options
and/or arguments may be used. You can include general specification information before the commands below. This information could include links to related material or descriptions of similar commands.

[example API name] [example API version]

example create
------------
Create new example

  .. program:: example create
  .. code:: bash

    openstack example create
    <name>

  .. describe:: <name>

    New example name

example delete
------------
Delete example(s)

  .. program:: example delete
  .. code:: bash

    openstack example delete
    <example> [<example> ...]

  .. describe:: <example>

    Example(s) to delete (name or ID)

eexample list
------------
List examples

  .. program:: example list
  .. code:: bash

    openstack example list

eexample set
----------
Set example properties

.. program:: example set
.. code:: bash

   openstack example set
   [--name <new-name>]
   <example>

.. option:: --name <new-name>

    New example name

.. describe:: <example>

    Example to modify (name or ID)

eexample show
-----------

Display example details

.. program:: example show
.. code:: bash

   openstack example show
   <example>

.. describe:: <example>

    Example to display (name or ID)

=============
Command Specs
=============

Specifications for new commands, objects and actions are listed below. These specifications have not been implemented. See :ref:`command-list` for implemented commands and :ref:`command-structure` for implemented objects and actions.

It is optional to propose a specifications patch for new commands, objects and actions here before submitting the implementation. Once your specifications patch merges then you may proceed with the implementation. Your implementation patches should move applicable portions of the specifications patch to the official :ref:`command-list` and :ref:`command-structure` documentation.
Objects Specs
-------------
Add specifications for new objects based on the ``example`` object.

Actions Specs
-------------
Add specifications for new actions based on the ``example`` action.

.. toctree::
   :maxdepth: 1

   network-topology

Commands Specs
--------------
Add specifications for new commands based on the commands for the
``example`` object. The ``example`` commands are not intended to
be a complete template for new commands since other actions, options
and/or arguments may be used.

.. toctree::
   :glob:
   :maxdepth: 2

   command-objects/*
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========================================
OpenStack SDK Developer Coding Standards
========================================

In the beginning, there were no guidelines. And it was good. But that didn’t last long. As more and more people added more and more code, we realized that we needed a set of coding standards to make sure that the openstacksdk API at least *attempted* to display some form of consistency.

Thus, these coding standards/guidelines were developed. Note that not all of openstacksdk adheres to these standards just yet. Some older code has not been updated because we need to maintain backward compatibility. Some of it just hasn’t been changed yet. But be clear, all new code *must* adhere to these guidelines.

Below are the patterns that we expect openstacksdk developers to follow.

Release Notes
============

openstacksdk uses `reno <http://docs.openstack.org/developer/reno/>`_ for managing its release notes. A new release note should be added to your contribution anytime you add new API calls, fix significant bugs, add new functionality or parameters to existing API calls, or make any other significant changes to the code base that we should draw attention to for the user base.

It is *not* necessary to add release notes for minor fixes, such as correction of documentation typos, minor code cleanup or reorganization, or any other change that a user would not notice through normal usage.

Exceptions
Exceptions should NEVER be wrapped and re-raised inside of a new exception. This removes important debug information from the user. All of the exceptions should be raised correctly the first time.

openstack.cloud API Methods
============================

The `openstack.cloud` layer has some specific rules:

- When an API call acts on a resource that has both a unique ID and a name, that API call should accept either identifier with a name_or_id parameter.

- All resources should adhere to the get/list/search interface that control retrieval of those resources. E.g., `get_image()`, `list_images()`, `search_images()`.

- Resources should have `create_RESOURCE()`, `delete_RESOURCE()`, `update_RESOURCE()` API methods (as it makes sense).

- For those methods that should behave differently for omitted or None-valued parameters, use the `_utils.valid_kargs` decorator. Notably: all Neutron `update_*` functions.

- Deleting a resource should return True if the delete succeeded, or False if the resource was not found.

Returned Resources
------------------

Complex objects returned to the caller must be a `munch.Munch` type. The `openstack._adapter.ShadeAdapter` class makes resources into `munch.Munch`.

All objects should be normalized. It is shade's purpose in life to make OpenStack consistent for end users, and this means not trusting the clouds to return consistent objects. There should be a normalize function in `openstack/cloud/_normalize.py` that is applied to objects before returning them to the user. See :doc:`../user/model` for further details on object model requirements.

Fields should not be in the normalization contract if we cannot commit to providing them to all users.

Fields should be renamed in normalization to be consistent with the rest of `openstack.cloud`. For instance, nothing in `openstack.cloud` exposes the legacy OpenStack concept of "tenant" to a user, but instead uses
"project" even if the cloud in question uses tenant.

Nova vs. Neutron

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

- Recognize that not all cloud providers support Neutron, so never assume it will be present. If a task can be handled by either Neutron or Nova, code it to be handled by either.

- For methods that accept either a Nova pool or Neutron network, the parameter should just refer to the network, but documentation of it should explain about the pool. See: `create_floating_ip()` and `available_floating_ip()` methods.

Tests

=====

- New API methods *must* have unit tests!

- New unit tests should only mock at the REST layer using `requests_mock`. Any mocking of openstacksdk itself should be considered legacy and to be avoided. Exceptions to this rule can be made when attempting to test the internals of a logical shim where the inputs and output of the method aren't actually impacted by remote content.

- Functional tests should be added, when possible.

- In functional tests, always use unique names (for resources that have this attribute) and use it for clean up (see next point).

- In functional tests, always define cleanup functions to delete data added by your test, should something go wrong. Data removal should be wrapped in a try except block and try to delete as many entries added by the test as possible.

Creating a Development Environment

==================================

Required Tools

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

Python

*****

As the OpenStack SDK is developed in Python, you will need at least one version of Python installed. It is strongly preferred that you have at least one of version 2 and one of version 3 so that your tests are run against both. Our continuous integration system runs against several versions, so ultimately we will have the proper test coverage, but having multiple versions locally
results in less time spent in code review when changes unexpectedly break other versions.

Python can be downloaded from https://www.python.org/downloads.

virtualenv

**********

In order to isolate our development environment from the system-based Python installation, we use `virtualenv <https://virtualenv.pypa.io/en/latest/>`_

This allows us to install all of our necessary dependencies without interfering with anything else, and preventing others from interfering with us.

Virtualenv must be installed on your system in order to use it, and it can be had from PyPI, via pip, as follows. Note that you may need to run this as an administrator in some situations.::

$ apt-get install python-virtualenv  # Debian based platforms
$ yum install python-virtualenv      # Red Hat based platforms
$ pip install virtualenv             # Mac OS X and other platforms

You can create a virtualenv in any location. A common usage is to store all of your virtualenvs in the same place, such as under your home directory.

To create a virtualenv for the default Python, likely a version 2, run the following::

$ virtualenv $HOME/envs/sdk

To create an environment for a different version, such as Python 3, run the following::

$ virtualenv -p python3.4 $HOME/envs/sdk3

When you want to enable your environment so that you can develop inside of it, you *activate* it. To activate an environment, run the /bin/activate script inside of it, like the following::

$ source $HOME/envs/sdk3/bin/activate

(sdk3)$

Once you are activated, you will see the environment name in front of your command prompt. In order to exit that environment, run the `deactivate` command.

**tox**

---

We use `tox <https://tox.readthedocs.org/en/latest/>`_ as our test runner, which allows us to run the same test commands against multiple versions
of Python. Inside any of the virtualenvs you use for working on the SDK, run the following to install `tox` into it.::

(sdk3)$ pip install tox

Git
***

The source of the OpenStack SDK is stored in Git. In order to work with our source repository, you must have Git installed on your system. If your system has a package manager, it can likely be had from there. If not, you can find downloads or the source at http://git-scm.com.

Getting the Source Code
-----------------------

.. TODO(briancurtin): We should try and distill the following document into the minimally necessary parts to include directly in this section. I've talked to several people who are discouraged by that large of a document to go through before even getting into the project they want to work on. I don't want that to happen to us because we have the potential to be more public facing than a lot of other projects.

.. note:: Before checking out the code, please read the OpenStack `Developer's Guide <http://docs.openstack.org/infra/manual/developers.html>`_ for details on how to use the continuous integration and code review systems that we use.

The canonical Git repository is hosted on openstack.org at http://git.openstack.org/cgit/openstack/python-openstacksdk/, with a mirror on GitHub at https://github.com/openstack/python-openstacksdk. Because of how Git works, you can create a local clone from either of those, or your own personal fork.::

(sdk3)$ git clone https://git.openstack.org/openstack/python-openstacksdk.git
(sdk3)$ cd python-openstacksdk

Installing Dependencies
-----------------------

In order to work with the SDK locally, such as in the interactive interpreter or to run example scripts, you need to install the project's dependencies.::

(sdk3)$ pip install -r requirements.txt

After the downloads and installs are complete, you'll have a fully functional environment to use the SDK in.
Building the Documentation
--------------------------

Our documentation is written in reStructured Text and is built using Sphinx. A `docs` command is available in our `tox.ini`, allowing you to build the documentation like you'd run tests. The `docs` command is not evaluated by default.::

```bash
(sdk3)$ tox -e docs
```

That command will cause the documentation, which lives in the `docs` folder, to be built. HTML output is the most commonly referenced, which is located in `docs/build/html`.

How the SDK is organized
======================================

The following diagram shows how the project is laid out.

.. literalinclude:: layout.txt

Resource
-------

The :class:`openstack.resource.Resource` base class is the building block of any service implementation. `Resource` objects correspond to the resources each service's REST API works with, so the :class:`openstack.compute.v2.server.Server` subclass maps to the compute service's `https://openstack:1234/v2/servers` resource.

The base `Resource` contains methods to support the typical `CRUD <http://en.wikipedia.org/wiki/Create,_read,_update_and_delete>` operations supported by REST APIs, and handles the construction of URLs and calling the appropriate HTTP verb on the given `Adapter`.

Values sent to or returned from the service are implemented as attributes on the `Resource` subclass with type :class:`openstack.resource.prop`. The `prop` is created with the exact name of what the API expects, and can optionally include a `type` to be validated against on requests. You should choose an attribute name that follows PEP-8, regardless of what the server-side expects, as this `prop` becomes a mapping between the two.::

```py
is_public = resource.prop('os-flavor-access:is_public', type=bool)
```

There are six additional attributes which the `Resource` class checks before making requests to the REST API. `allow_create`, `allow_retrieve`, `allow_update`, `allow_delete`, `allow_head`, and `allow_list` are set to `True` or `False`, and are checked before making the corresponding method call.
The ``base_path`` attribute should be set to the URL which corresponds to this resource. Many ``base_path``'s are simple, such as ``/servers``.
For ``base_path``'s which are composed of non-static information, Python's string replacement is used, e.g., ``base_path = '/servers/%(server_id)s/ips'``.

``resource_key`` and ``resources_key`` are attributes to set when a "Resource" returns more than one item in a response, or otherwise requires a key to obtain the response value. For example, the "Server" class sets ``resource_key = "server"`` as an individual "Server" is stored in a dictionary keyed with the singular noun, and ``resources_key = "servers"`` as multiple "Server"'s are stored in a dictionary keyed with the plural noun in the response.

Proxy
-----

Each service implements a ``Proxy`` class, within the "openstack/<program_name>/vX/_proxy.py" module. For example, the v2 compute service's "Proxy" exists in "openstack/compute/v2/_proxy.py".

This "Proxy" class contains a `<keystoneauth1.adapter.Adapter>` and provides a higher-level interface for users to work with via a `<openstack.connection.Connection>` instance. Rather than requiring users to maintain their own "Adapter" and work with lower-level `<openstack.resource.Resource>` objects, the "Proxy" interface offers a place to make things easier for the caller.

Each "Proxy" class implements methods which act on the underlying "Resource" classes which represent the service. For example:

```python
def list_flavors(self, **params):
    return flavor.Flavor.list(self.session, **params)
```

This method is operating on the ``openstack.compute.v2.flavor.Flavor.list`` method. For the time being, it simply passes on the "Adapter" maintained by the "Proxy", and returns what the underlying "Resource.list" method does.

The implementations and method signatures of "Proxy" methods are currently under construction, as we figure out the best way to implement them in a way which will apply nicely across all of the services.

Connection
----------

The `<openstack.connection.Connection>` class builds atop a `<os_client_config.config.CloudRegion>` object, and provides a higher
level interface constructed of ``Proxy`` objects from each of the services.

The ``Connection`` class' primary purpose is to act as a high-level interface to this SDK, managing the lower level connection bits and exposing the "Resource" objects through their corresponding "Proxy" object.

If you've built proper "Resource" objects and implemented methods on the corresponding "Proxy" object, the high-level interface to your service should now be exposed.

.. TODO(shade) Update this guide.

Creating a New Resource

This guide will walk you through how to add resources for a service.

Naming Conventions

Above all, names across this project conform to Python's naming standards, as laid out in `PEP 8 <https://www.python.org/dev/peps/pep-0008/>`_.

The relevant details we need to know are as follows:

* Module names are lower case, and separated by underscores if more than one word. For example, `openstack.object_store`
* Class names are capitalized, with no spacing, and each subsequent word is capitalized in a name. For example, `ServerMetadata`.
* Attributes on classes, including methods, are lower case and separated by underscores. For example, `allow_list` or `get_data`.

Services

Services in the OpenStack SDK are named after their program name, not their code name. For example, the project often known as "Nova" is always called "compute" within this SDK.

This guide walks through creating service for an OpenStack program called "Fake". Following our guidelines, the code for its service would live under the `openstack.fake` namespace. What follows is the creation of a `class:`~openstack.resource.Resource` class for the "Fake" service.

Resources

Resources are named after the server-side resource, which is set in the "base_path" attribute of the resource class. This guide creates a
resource class for the ``/fake`` server resource, so the resource module
is called ``fake.py`` and the class is called ``Fake``.
An Example
---------``openstack/fake/fake_service.py``
.. literalinclude:: examples/resource/fake_service.py
:language: Python
:linenos:
``openstack/fake/v2/fake.py``
.. literalinclude:: examples/resource/fake.py
:language: Python
:linenos:
``fake.Fake`` Attributes
-----------------------Each service's resources inherit from :class:`~openstack.resource.Resource`,
so they can override any of the base attributes to fit the way their
particular resource operates.
``resource_key`` and ``resources_key``
**************************************
These attributes are set based on how your resource responds with data.
The default values for each of these are ``None``, which works fine
when your resource returns a JSON body that can be used directly without a
top-level key, such as ``{"name": "Ernie Banks", ...}"``.
However, our ``Fake`` resource returns JSON bodies that have the details of
the resource one level deeper, such as
``{"resources": {"name": "Ernie Banks", ...}, {...}}``. It does a similar
thing with single resources, putting them inside a dictionary keyed on
``"resource"``.
By setting ``Fake.resource_key`` on *line 8*, we tell the ``Resource.create``,
``Resource.get``, and ``Resource.update`` methods that we're either sending
or receiving a resource that is in a dictionary with that key.
By setting ``Fake.resources_key`` on *line 9*, we tell the ``Resource.list``
method that we're expecting to receive multiple resources inside a dictionary
with that key.
``base_path``

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11536


The ``base_path`` is the URL we're going to use to make requests for this resource. In this case, line 10 sets ```base_path = "/fake"````, which also corresponds to the name of our class, ``Fake``.

Most resources follow this basic formula. Some cases are more complex, where the URL to make requests to has to contain some extra data. The volume service has several resources which make either basic requests or detailed requests, so they use ```base_path = "/volumes/%s(detailed)"````. Before a request is made, if ```detailed = True```, they convert it to a string so the URL becomes ```/volumes/detailed```. If it's ```False```, they only send ```/volumes/```.

``service``

*Line 11* is an instance of the service we're implementing. Each resource ties itself to the service through this setting, so that the proper URL can be constructed.

In ``fake_service.py``, we specify the valid versions as well as what this service is called in the service catalog. When a request is made for this resource, the Session now knows how to construct the appropriate URL using this ``FakeService`` instance.

Supported Operations

The base :class:`~openstack.resource.Resource` disallows all types of requests by default, requiring each resource to specify which requests they support.

On lines 14-19, our ``Fake`` resource specifies that it'll work with all of the operations.

In order to have the following methods work, you must allow the corresponding value by setting it to ```True```:

```
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.create` | allow_create   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.delete` | allow_delete   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.head`   | allow_head     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.list`   | allow_list     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.get`    | allow_get      |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.update` | allow_update   |
```
An additional attribute to set is `put_update` if your service uses `PUT` requests in order to update a resource. By default, `PATCH` requests are used for `Resource.update`.

Properties
---------

.. TODO(shade) Especially this section

The way resource classes communicate values between the user and the server are `~openstack.resource.prop` objects. These act similarly to Python's built-in property objects, but they share only the name - they're not the same.

Properties are set based on the contents of a response body or headers. Based on what your resource returns, you should set `prop`'s to map those those values to ones on your `~openstack.resource.Resource` object.

*Line 22* sets a prop for `timestamp`, which will cause the `Fake.timestamp` attribute to contain the value returned in an `X-Timestamp` header, such as from a `Fake.head` request.

*Line 24* sets a prop for `name`, which is a value returned in a body, such as from a `Fake.get` request. Note from *line 12* that `name` is specified its `id` attribute, so when this resource is populated from a response, `Fake.name` and `Fake.id` are the same value.

*Line 26* sets a prop which contains an alias. `Fake.value` will be set when a response body contains a `value`, or when a header contains `X-Resource-Value`.

*Line 28* specifies a type to be checked before sending the value in a request. In this case, we can only set `Fake.cool` to either `True` or `False`, otherwise a TypeError will be raised if the value can't be converted to the expected type.

Documentation
-------------

We use Sphinx's `autodoc` feature in order to build API documentation for each resource we expose. The attributes we override from `~openstack.resource.Resource` don't need to be documented, but any `~openstack.resource.prop` attributes must be. All you need to do is add a comment *above* the line to document, with a colon following the pound-sign.
from openstack.fake import fake_service
from openstack import resource

class Fake(resource.Resource):
    resource_key = "resource"
    resources_key = "resources"
    base_path = "/fake"
    service = fake_service.FakeService()

    allow_create = True
    allow_get = True
    allow_update = True
    allow_delete = True
    allow_list = True
    allow_head = True

    #: The transaction date and time.
    timestamp = resource.Header("x-timestamp")
    #: The name of this resource.
    name = resource.Body("name", alternate_id=True)
    #: The value of the resource. Also available in headers.
    value = resource.Body("value", alias="x-resource-value")
    #: Is this resource cool? If so, set it to True.
    #: This is a multi-line comment about cool stuff.
    cool = resource.Body("cool", type=bool)

from openstack import service_filter

class FakeService(service_filter.ServiceFilter):
    """The fake service."""

    valid_versions = [service_filter.ValidVersion('v2')]

    def __init__(self, version=None):
        """Create a fake service."""
        super(FakeService, self).__init__(service_type='fake', version=version)

    [local|localrc]

    # Configure passwords and the Swift Hash
    MYSQL_PASSWORD=DEVSTACK_PASSWORD
RABBIT_PASSWORD=DEVSTACK_PASSWORD
SERVICE_TOKEN=DEVSTACK_PASSWORD
ADMIN_PASSWORD=DEVSTACK_PASSWORD
SERVICE_PASSWORD=DEVSTACK_PASSWORD
SWIFT_HASH=DEVSTACK_PASSWORD

# Configure the stable OpenStack branches used by DevStack
# For stable branches see
# http://git.openstack.org/cgit/openstack-dev/devstack/refs/
CINDER_BRANCH=stable/OPENSTACK_VERSION
CEILOMETER_BRANCH=stable/OPENSTACK_VERSION
GLANCE_BRANCH=stable/OPENSTACK_VERSION
HEAT_BRANCH=stable/OPENSTACK_VERSION
HORIZON_BRANCH=stable/OPENSTACK_VERSION
KEYSTONE_BRANCH=stable/OPENSTACK_VERSION
NEUTRON_BRANCH=stable/OPENSTACK_VERSION
NOVA_BRANCH=stable/OPENSTACK_VERSION
SWIFT_BRANCH=stable/OPENSTACK_VERSION
ZAQAR_BRANCH=stable/OPENSTACK_VERSION

# Enable Swift
enable_service s-proxy
enable_service s-object
enable_service s-container
enable_service s-account

# Disable Nova Network and enable Neutron
disable_service n-net
enable_service q-svc
enable_service q-agt
enable_service q-dhcp
enable_service q-l3
enable_service q-meta
enable_service q-metering

# Enable Zaqar
enable_plugin zaqar https://github.com/openstack/zaqar
enable_service zaqar-server

# Enable Heat
enable_service h-eng
enable_service h-api
enable_service h-api-cfn
enable_service h-api-cw

# Automatically download and register a VM image that Heat can launch
# For more information on Heat and DevStack see
# https://docs.openstack.org/heat/latest/getting_started/on_devstack.html
# Logging

LOGDAYS=1
LOGFILE=/opt/stack/logs/stack.sh.log
LOGDIR=/opt/stack/logs

openstack/
  connection.py
  resource.py
  compute/
    compute_service.py
  v2/
    server.py
    _proxy.py
tests/
  compute/
  v2/
    test_server.py

.. include:: ../../../CONTRIBUTING.rst

Contributing to the OpenStack SDK
=================================

This section of documentation pertains to those who wish to contribute to the development of this SDK. If you're looking for documentation on how to use the SDK to build applications, please see the `user <../users>`_ section.

About the Project
-----------------

The OpenStack SDK is a OpenStack project aimed at providing a complete software development kit for the programs which make up the OpenStack community. It is a set of Python-based libraries, documentation, examples, and tools released under the Apache 2 license.

Contribution Mechanics
----------------------

.. toctree::
  :maxdepth: 2

  contributing

Contacting the Developers
--------------------------
IRC
***

The developers of this project are available in the `#openstack-sdks <http://webchat.freenode.net?channels=%23openstack-sdks>`_ channel on Freenode. This channel includes conversation on SDKs and tools within the general OpenStack community, including OpenStackClient as well as occasional talk about SDKs created for languages outside of Python.

Email
*****

The `openstack-dev <mailto:openstack-dev@openstack.org?subject=[python-openstacksdk]%20Question%20about%20the%20python-openstacksdk>`_ mailing list fields questions of all types on OpenStack. Using the ```[python-openstacksdk]``` filter to begin your email subject will ensure that the message gets to SDK developers.

Coding Standards
----------------

We are a bit stricter than usual in the coding standards department. It’s a good idea to read through the :doc:`coding <coding>` section.

.. toctree::
   :maxdepth: 2

   coding

Development Environment
-----------------------

The first step towards contributing code and documentation is to setup your development environment. We use a pretty standard setup, but it is fully documented in our :doc:`setup <setup>` section.

.. toctree::
   :maxdepth: 2

   setup

Testing
------

The project contains three test packages, one for unit tests, one for functional tests and one for examples tests. The ```openstack.tests.unit``` package tests the SDK's features in isolation. The ```openstack.tests.functional``` and ```openstack.tests.examples``` packages test
the SDK’s features and examples against an OpenStack cloud.

.. toctree::

   testing

---

Project Layout

The project contains a top-level `openstack` package, which houses several modules that form the foundation upon which each service's API is built on. Under the `openstack` package are packages for each of those services, such as `openstack.compute`.

.. toctree::

   layout

Adding Features

Does this SDK not do what you need it to do? Is it missing a service? Are you a developer on another project who wants to add their service? You're in the right place. Below are examples of how to add new features to the OpenStack SDK.

.. toctree::

   :maxdepth: 2

   create/resource

   .. TODO(briancurtin): document how to create a proxy
   .. TODO(briancurtin): document how to create auth plugins

   clouds:
   test_cloud:
      region_name: RegionOne
      auth:
         auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
         username: demo
         password: secrete
         project_name: demo
   example:
      image_name: fedora-20.x86_64
      flavor_name: m1.small
      network_name: private
   rackspace:
      cloud: rackspace
      auth:
username: joe
password: joes-password
project_name: 123123
region_name: IAD

Testing
=======


Unit Tests
----------

Run
***

In order to run the entire unit test suite, simply run the `tox` command inside of your source checkout. This will attempt to run every test command listed inside of `tox.ini`, which includes Python 2.7, 3.4, PyPy, and a PEP 8 check. You should run the full test suite on all versions before submitting changes for review in order to avoid unexpected failures in the continuous integration system.::

```
(sdk3)$ tox
...
py34: commands succeeded
py27: commands succeeded
pypy: commands succeeded
pep8: commands succeeded
congratulations :)
```

During development, it may be more convenient to run a subset of the tests to keep test time to a minimum. You can choose to run the tests only on one version. A step further is to run only the tests you are working on.::

```
(sdk3)$ tox -e py34 # Run the tests on Python 3.4
(sdk3)$ tox -e py34 TestContainer # Run only the TestContainer tests on 3.4
```

Functional Tests
----------------

The functional tests assume that you have a public or private OpenStack cloud that you can run the tests against. The tests must be able to be run against public clouds but first and foremost they must be run against OpenStack. In practice, this means that the tests should initially be run against a stable branch of `DevStack <https://docs.openstack.org/devstack/latest>`_.

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11544
DevStack
*********

There are many ways to run and configure DevStack. The link above will show you how to run DevStack a number of ways. You'll need to choose a method you're familiar with and can run in your environment. Wherever DevStack is running, we need to make sure that python-openstacksdk contributors are using the same configuration.

This is the ``local.conf`` file we use to configure DevStack.

.. literalinclude:: local.conf

Replace ``DEVSTACK_PASSWORD`` with a password of your choice.

Replace ``OPENSTACK_VERSION`` with a stable branch <http://git.openstack.org/cgit/openstack-dev/devstack/refs/> of OpenStack (without the ``stable/`` prefix on the branch name).

os-client-config
***************

To connect the functional tests to an OpenStack cloud we use `os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`_. To setup os-client-config create a ``clouds.yaml`` file in the root of your source checkout.

This is an example of a minimal configuration for a ``clouds.yaml`` that connects the functional tests to a DevStack instance. Note that one cloud under ``clouds`` must be named ``test_cloud``.

.. literalinclude:: clouds.yaml

Replace ``xxx.xxx.xxx.xxx`` with the IP address or FQDN of your DevStack instance.

You can also create a ``~/.config/openstack/clouds.yaml`` file for your DevStack cloud environment using the following commands. Replace ``DEVSTACK_SOURCE`` with your DevStack source checkout.::

``
(sdk3)$ source DEVSTACK_SOURCE/accrc/admin/admin
(sdk3)$ ./create_yaml.sh
``

Run
***
Functional tests are run against both Python 2 and 3. In order to run the entire functional test suite, run the ``tox -e functional`` and ``tox -e functional3`` command inside of your source checkout. This will attempt to run every test command under ``/openstack/tests/functional/`` in the source tree. You should run the full functional test suite before submitting changes for review in order to avoid unexpected failures in the continuous integration system.::

```
(sdk3)$ tox -e functional
...
    functional: commands succeeded
    congratulations :)
(sdk3)$ tox -e functional3
...
    functional3: commands succeeded
    congratulations :)
```

Examples Tests
--------------

Similar to the functional tests, the examples tests assume that you have a public or private OpenStack cloud that you can run the tests against. In practice, this means that the tests should initially be run against a stable branch of `DevStack <https://docs.openstack.org/devstack/latest/>`_.

And like the functional tests, the examples tests connect to an OpenStack cloud using `os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`_.

See the functional tests instructions for information on setting up DevStack and os-client-config.

Run
***

In order to run the entire examples test suite, simply run the ``tox -e examples`` command inside of your source checkout. This will attempt to run every test command under ``/openstack/tests/examples/`` in the source tree.::

```
(sdk3)$ tox -e examples
...
    examples: commands succeeded
    congratulations :)
```

1.517 python-os-client-config 1.29.0 :1.el7ost
1.517.1 Available under license :

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1.518 python-os-service-types 1.1.0 :1.el7ost

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1.520 python-os-vif 1.9.1 :2.el7ost

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1.540 python-osprofiler 1.15.2 :1.el7ost

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1.541 python-pandas 0.19.1 :3.el7ost.2

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1.543 python-passlib 1.7.0 :4.el7ost

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---------
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1.544 python-paste 1.7.5.1 :9.20111221hg1498.el7

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1.545 python-pbr 3.1.1 :2.el7ost

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1.554 python-pyasn1 0.1.9 :7.el7

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1.555 python-pycadf 2.7.0 :1.el7ost

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1.556 python-pycparser 2.14 :1.el7

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The list is sorted in increasing alphabetic order by first name.

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* Andrew de los Reyes
* Benoit Pradelle
* Dov Feldstern
* Even Wiik Thomassen
* Greg Smith
* Jaroslav Franek
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* Mateusz Czaplinski
* Paolo Di Maio
* Rory Yorke
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1.557 python-pycurl 7.19.0 :19.el7

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.558 python-pygments 1.4 :10.el7

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(cpygments.token
  _TokenType
  p3
c__builtin__
tuple
p4
(S'Text'
p5
ttRp6
(dp7
S'subtypes'
p8
c__builtin__
set
p9
((lp10
g2
  (g3
  g4
  (g5
S'Symbol'
p11
ttRp12
(dp13
  g8
  g9
  (ttRp14
  s'S'parent'
p15
  g6
  sbag2
  (g3
  g4
  (g5
S'Spaces'
p16
ttRp17
(dp18
  g8
  g9
  (ttRp19
  sg15
  g6
  sbatRp20
  sg11
  g12
  sg16
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11710
g2
g3
g4
g137
ttRp138
dp139
g59
g2
g3
g4
g137
g59
ttRp140
dp141
g8
g9
((ltRp142
sg15
g138
sbsg15
g21
sg125
g2
g3
g4
g137
g125
ttRp143
dp144
g8
g9
((ltRp145
sg15
g138
sbsg63
g2
g3
g4
g137
g63
ttRp146
dp147
g8
g9
((ltRp148
sg15
g138
sbsS'Reserved'
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11717
Open Source Used In Virtualized Infrastructure Manager 3.4.0
11721
V# New ports collection makefile for: python25
V# Date created: 3 July 2003
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>
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11736
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Vpython@FreeBSD.org

 tp440
 a(g6
 Vinterpreted
 tp442
 a(g6
 V
 tp443
 a(g6
 Vobject-oriented
 tp444
 a(g6
 Vprogramming
 tp445
 a(g6
 Vlanguage

VCOMMENT?
VDIST_SUBDIR

VWRKSRC

PYTHON_WRKSRC

V/portbld.static
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11739
tp502
a(g353
V=
tp503
a(g6
V
tp504
a(g6
V--build
p505
tp506
a(g353
V=
tp507
a(g138
V${\}$
p508
tp509
a(g100
VMACHINE_ARCH
p510
tp511
a(g138
V}
tp512
a(g6
V-portbld-freebsd
p513
tp514
a(g138
V${\}$
p515
tp516
a(g100
VOSREL
p517
tp518
a(g138
V}
tp519
a(g6
V\nu000a
p520
a(g100
VCONFIGURE_SCRIPT
p521
tp522
a(g353
V=
tp523
tag6
V
tp524
tag6
V../configure
tp525
tag6
V
tp527
tag24
V# must be relative

VCONFIGURE_ENV
p528
tag100
V=
tp532
tag6
V
tp533
tag100
VOPT
p534
tag353
V=
tp536
tag255
V"${CFLAGS}""

VSVNVERSION
p537
tag6
V
tp539
tag100

V"echo freebsd"

p543

tp544

a(g6

V\u000a

tp545

a(g100

VMAKE_ENV

p546

tp547

a(g353

V=

tp548

a(g6

V

tp549

a(g100

VVPATH

p550

tp551

a(g353

V=

tp552

a(g255

V"${PYTHON_WRKSRC}"
VINSTALL_TARGET
p563
tp564
atg353
V=
tp565
atg6
V
tp566
atg6
Valtinstall
p567
tp568
atg6
V\u0000a
tp569
atg100
VMAN1
p570
tp571
atg353
V=
tp572
atg6
V
p573
tp574
atg138
V$\{
p575
tp576
atg100
VPYTHON_VERSION
p577
tp578
atg138
V\}
tp579
atg6
V.1
p580
tp581
atg6
V\u0000a\u0000a
p582
tp583
atg100
VUSE_PYTHON
VSHARED_WRKSRC
p606
tp607
at(g100
V=

tp608
at(g6
V

tp609
at(g138
V${}\$

tp610
tp611
at(g100
VPYTHON_WRKSRC
p612
tp613
at(g138
V)

tp614
at(g6
V/portbld.shared
p615
tp616
at(g6
V\u000a

tp617
at(g100
VPLIST
p618
tp619
at(g353
V=

tp620
at(g6
V
p621
tp622
at(g138
V${}\$

tp623
tp624
at(g100
VWRKDIR
p625
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11746
VPYTHON_VERSION
p651
tp652
a(g138
V:
tp653
a(g100
VS
tp654
a(g212
V/python/
p655
tp656
a(g138
V)
tp657
a(g6
V
tp658
a(g262
\u005c\u000a
p659
tp660
a(g6
V
p661
tp662
a(g100
VPYVER_WITHPAT
p663
tp664
a(g353
V=
tp665
a(g138
VS{
p666
tp667
VBIN_SCRIPTS

p711
tp712
a(g100
V
p713
a(g353
V=
tp714
a(g6
V
dle
p715
tp716
a(g6
V
tp717
a(g6
V
p718
tp719
a(g6
V
tp720
a(g6
V
p721
tp722
a(g6
V
tp723
a(g6
V
p724
tp725
a(g6
V
tp726
a(g6
V
p727
tp728
a(g6
V
tp729

Open Source Used In Virtualized Infrastructure Manager 3.4.0
11750
V's,(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'" 

VOPTIONS

V"Enable thread support"
**Open Source Used In Virtualized Infrastructure Manager 3.4.0**

11753

---

```
Use a larger thread stack
```

---

```
VHUGE_STACK_SIZE
```

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```
VUCS4
```

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```
Vloff
```

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V
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V
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V
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V
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```
V
```
"Use UCS4 for unicode support"

"Use python's internal malloc"
"Enable IPv6 support"
"Enable floating point exception handling"
tp858
a(g6
Vpython.1
p859
tp860
a(g6
Vu000a
tp861
a(g6
VPLIST_SUB+
p862
tp863
a(g353
V=
tp864
a(g6
V
tp865
a(g100
VIF_DEFAULT
p866
tp867
a(g353
V=
tp868
a(g255
V="
p869
tp870
a(g6
Vu000a
tp871
a(g27
V.else\u000a
p872
tp873
a(g6
V
tp874
a(g6
VPLIST_SUB+
p875
tp876
a(g353
V=
tp877
a(g6
V
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11758

1758

VIF_DEFAULT

11758

p879

tp880

a(g353

V=

tp881

a(g255

V"@comment "
p882

tp883

a(g6

V\u0000a

tp884

a(g27

V.endif\u0000a

p885

tp886

a(g6

V\u0000a

tp887

a(g24

V# workaround for a bug in base curses.h\u0000a

p888

tp889

a(g6

V
tp890

a(g6

VCFLAGS+
p891

tp892

a(g353

V=
tp893

a(g6

V
tp894

a(g6

V-D__wchar_t

p895

tp896

a(g353

V=
tp897

a(g6

wchar_t
V\u000a
V\u000a
p900
V\u000a
p901
a(g27
V,if 'defined(WITHOUT_THREADS)\u000a
p902
a(g6
V
p903
a(g6
VCONFIGURE_ARGS+
p905
a(g353
V=
p907
a(g6
V
p908
a(g6
V--with-threads
p909
a(g100
V$\u000a
p910
a(g6
V\u000a
p911
a(g6
VCFLAGS+
p912
a(g353
V=
p913
a(g6
V
p914
a(g6
V
p915
V${
p916
a(g138
VPTHREAD_CFLAGS
p917
a(g100
VPTHREAD_CFLAGS
p919
tp920
a(g138
V}
tp921
a(g6
V\u000a
,tp922
a(g27
V.if defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p923
,tp924
a(g6
V
,tp925
a(g6
VCFLAGS+
p926
,tp927
a(g353
V=
tp928
a(g6
V
p929
,tp930
a(g6
V-DTHREAD_STACK_SIZE
p931
,tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
,tp935
a(g6
V\u000a
,tp936
a(g27
V.else\u000a
p937
,tp938
a(g6
V
,tp939
a(g6
VCFLAGS+
V-DTHREAD_STACK_SIZE

V0x100000

VCONFIGURE_ENV+

VLDFLAGS
a\(g\)255
V"\{$PTHREAD\_LIBS\} \{$LDFLAGS\}"
p962
tp963
a\(g\)6
V\u000a
tp964
a\(g\)27
V.else\u000a
p965
tp966
a\(g\)6
V
tp967
a\(g\)6
VCONFIGURE\_ARGS+
p968
tp969
a\(g\)353
V=
tp970
a\(g\)6
V
tp971
a\(g\)6
V--without-threads
p972
tp973
a\(g\)6
V\u000a
tp974
a\(g\)27
V.if defined(\$LDFLAGS)\u000a
p975
tp976
a\(g\)6
V
tp977
a\(g\)6
VCONFIGURE\_ENV+
p978
tp979
a\(g\)353
V=
tp980
a\(g\)6
V
p981
VLDFLAGS

V="${LDFLAGS}"
p1002
tp1003
a(g353
V=
tp1004
a(g6
Vucs4
p1005
tp1006
a(g6
V\u0000a
tp1007
a(g27
V.endif\u0000a
p1008
tp1009
a(g6
V\u0000a
tp1010
a(g27
V.if defined(WITHOUT_PYMALLOCC)\u0000a
p1011
tp1012
a(g6
V
tp1013
a(g6
VCONFIGURE_ARGS+
p1014
tp1015
a(g353
V=
tp1016
a(g6
V
p1017
tp1018
a(g6
V--without-pymalloc
p1019
tp1020
a(g6
V\u0000a
tp1021
a(g27
V.endif\u0000a
p1022
tp1023
if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha

if ${ARCH} == 32bit

V32BIT_ONLY

V
V"@comment "

V\u000a

V else\u000a

VPLIST_SUB+

V32BIT_ONLY

V""

V\u000a

V.endif\u000a
V.if ${ARCH} == sparc64
p1085
tp1086
atg6
V
tp1087
atg6
VCFLAGS+

p1088

tp1089
atg353
V=

tp1090
atg6
V
p1091

tp1092
atg6
V-PYTHON_DEFAULT_RECURSION_LIMIT


p1093

tp1094
atg353
V=

tp1095
atg6
V900
p1096

tp1097
atg6
V\\u000a

tp1098
atg27
V.endif\\u000a


p1099

tp1100
atg6
V\\u000a

tp1101
atg27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS


p1102

tp1103
atg6
V

tp1104
atg6
VPLIST_SUB+


p1105
tp1126
a(g6
V\u0000a
tp1127
a(g27
V.endif\u0000a
p1128
 tp1129
a(g6
V\u0000a
tp1130
a(g27
V.if !defined(WITHOUT_IPV6)\u0000a
p1131
 tp1132
a(g6
V
 tp1133
a(g6
VCONFIGURE_ARGS+
p1134
 tp1135
a(g353
V=
 tp1136
a(g6
V
 tp1137
a(g6
V--enable-ipv6
p1138
 tp1139
a(g6
V\u0000a
tp1140
a(g27
V.else\u0000a
p1141
 tp1142
a(g6
V
 tp1143
a(g6
VCONFIGURE_ARGS+
p1144
 tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a

V.endif\u000a
p1151
tp1152
a(g6
V\u000a

V.endif\u000a
p1154
tp1155
a(g6
V

VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
tp1159
a(g6
V

V--with-fpectl
p1161
tp1162
a(g6
V\u000a

V.endif\u000a
p1164
tp1165
a(g6
V\u000a
V.if ${OSVERSION} >= 700000
p1167
a[g6
V
p1169
a[g100
VPLATFORMS
p1170
tp1171
a[g353
V=
tp1172
a[g6
Vplat-freebsd4
p1173
tp1174
a[g6
V
p1175
a[g6
Vplat-freebsd5
p1176
tp1177
a[g6
V
p1178
a[g6
Vplat-freebsd6
p1179
tp1180
a[g6
Vu000a
p1181
a[g27
V.elif ${OSVERSION} >= 600000
p1182
tp1183
a[g6
V
p1184
a[g100
VPLATFORMS
p1185
tp1186
a[g353
V]
{tp1229
a[g6
V
{tp1230
a[g138
V}$
p1231
tp1232
a[g100
VSHARED_WRK_SRC
p1233
tp1234
a[g138
V]
{tp1235
a[g6
V/Modules
p1236
tp1237
a[g6
Vuu000a
p1238
tp1239
a[g138
V$
p1240
tp1241
a[g100
VSED
p1242
tp1243
a[g138
V]
{tp1244
a[g6
V
{tp1245
a[g6
V-e
p1246
tp1247
a[g6
V
{tp1248
a[g281
V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'p1249
tp1250
a(g6
V
tp1251
a(g262
V\u0005c\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V${
}

p1256
tp1257
a(g100
VPATCH_WRKDIR
p1258
tp1259
a(g138
V
}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V>
tp1264
a(g6
V
tp1265
a(g138
V${
}

p1266
tp1267
a(g100
VWRKDIR
p1268
tp1269
a(g138
V
}
tp1270
a(g6

V1s,^.*$!,#!${PREFIX}/bin/${PYTHON_VERSION},'
p
V/u005c/u000a
p
V$\}
p
VPATCH_WRK_SRC
p
V/Lib/smtpd.py
p
V>

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11779
V's/usr/doc/python-docs-.$PREFIX/share/doc/python,g'

V\u005c\u000a

V\u0005e\u000a

V$\{

V$\{

VPATCH_WRK_SRC

V/Lib/pydoc.py

V\u0000a

V\u0000a

V$\{

V$\{

VREINPLACE_CMD

V$\{

V$\{

V$\{
V
a@g6
V-e
p1380
tp1381
a@g6
V
p1382
a@g262
V/u005c\u000a
p1383
tp1384
a@g6
V
p1385
tp1386
a@g281
V's|^
(p
prefixes = .*u00s5c)u005c$\]|u005c1, "$(X11BASE)"
]g'
p1387
tp1388
a@g6
V
p1389
tp1390
a@g262
V/u005c\u000a
p1391
tp1392
a@g6
V
p1393
a@g138
V$

p1394
tp1395
a@g100
VPATCH_WRKSRC
p1396
tp1397
a@g138
V}

p1398
a@g6
V/Lib/site.py
p1399
tp1400
a@g6
VS{
p1423
tp1424
a[g100
VPATCH_WRKSRC
p1425
tp1426
a[g138
V}
tp1427
a[g6
V/Makefile.pre.in
p1428
tp1429
a[g6
V\u0000a\u0000a
p1430
tp1431
a[g138
VS{
p1432
tp1433
a[g100
VREINPLACE_CMD
p1434
tp1435
a[g138
V}
tp1436
a[g6
V
tp1437
a[g6
V-e
p1438
tp1439
a[g6
V
tp1440
a[g262
V\u005c\u000a
p1441
tp1442
a[g6
V
p1443
tp1444
a[g281
The image contains code snippets and comments in a programming language. Here is the text representation:

```bash
V's|"\u005c(./INSTALL_SCRIPT.*\u005c)python-config$$|#port \u005c'|p1445
tp1446
atg6
V

V\u000c\u000a
p1448
tp1449
atg6
V

\n
V$\n
V\u000c\u000a
p1450
tp1451
atg138
V$

V/Makefile.pre.in

V/Makefile.pre.in

\n
V\u000a\u000a
p1459
tp1460
atg138
V$

VSED

VSED

V$\n
V$
V-e
p1467
tp1468
atg6
V
tp1469
atg281
V's[^!.*|#!${PREFIX}/bin/${PYTHON_VERSION}]'
p1470
tp1471
atg6
V
tp1472
atg262
\u005c\u000a
p1473
tp1474
atg6
V
p1475
tp1476
atg138
VS{
p1477
tp1478
atg100
VPATCH_WRKSRC
p1479
tp1480
atg138
V}
tp1481
atg6
V/Misc/python-config.in
p1482
tp1483
atg6
V
tp1484
atg6
V>
tp1485
atg6
V
tp1486
atg138
V$
$p1487


```python
V$[!^.*!$[PREFIX]/bin/S[PYTHON_VERSION:S/thon/thon-shared/]]

V\u005c\u000a

V$\n
VPATCH_WRKSRV

V/Misc/python-config.in

VWRKDIR
```
if defined(WITH_FPECTL) && ${ARCH} == i386\u000a
a(g100
VMKDIE
p1552
tp1553
a(g138
V]
 tp1554
a(g6
V
 tp1555
a(g138
V$
 p1556
 tp1557
a(g100
VWRKSR
 p1558
 tp1559
a(g138
V]
 tp1560
a(g6
V/Modules
 p1561
 tp1562
a(g6
V\u0000a
 p1563
 tp1564
a(g138
V$
 p1565
 tp1566
a(g100
VECHO
 p1567
 tp1568
a(g138
V]
 tp1569
a(g6
V
 tp1570
a(g255
V"fpectl fpectlmodule.c"
 p1571
 tp1572
a(g6
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VTAR
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11793
VWRKSRCP
p1654
tpl655
ag100
V
V/Lib
pline59
tpl660
ag6
\u0000a
pline61
tpl662
ag138
V$
pline63
tpl664
ag100
VSED
pline65
tpl666
ag138
V$
pline67
ag6
V
pline68
ag6
V-e
pline69
tpl670
ag6
V
pline71
ag281
V's,^\u0005c(LDLIBRARY=\u0005c).*$,\u0005c1libpython$$(VERSION).so,'
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11796
VSHARED_WRKSRC
p1741
tp1742
a(g138
V}
tp1743
a(g6
V/Makefile
p1744
tp1745
a(g6
V\u0000a\u0000a
p1746
tp1747
a(g6
Vpre-build:
p1748
tp1749
a(g6
V\u0000a
p1750
tp1751
a(g84
Vcd
p1752
tp1753
a(g6
V
p1754
a(g138
V${
 p1755
tp1756
a(g100
VSHARED_WRKSRC
p1757
tp1758
a(g138
V}
tp1759
a(g6
V;
tp1760
a(g6
V
tp1761
a(g262
V\u0005c\u0000a
VSETENV

VMAKE_ENV

VMAKE
Vlib
p1783
tp1784
a(g138
V${

V$}
p1785
tp1786
a(g100
VPYTHON_VERSION
p1787
tp1788
a(g138
V)

V.sop1789
a(g6
V.sop1790
tp1791
a(g6
V

Vpython;
p1793
tp1794
a(g6
V

V\u005c\u000a
p1796
tp1797
a(g6
V

V\u005c\u000a
p1799
tp1800
a(g100
VLN
p1801
tp1802
a(g138
V)

V

V

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11801
```
| a(g6 | V-f |
| p1805 | tp1806 |
| a(g6 | V |
| tp1807 | a(g6 |
| Vlib | p1808 |
| tp1809 | a(g138 |
| V$| |
| p1810 | tp1811 |
| a(g100 | VPYTHON_VERSION |
| p1812 | tp1813 |
| a(g138 | V |
| tp1814 | a(g6 |
| V.so | p1815 |
| tp1816 | a(g6 |
| V | tp1817 |
| a(g6 | Vlib |
| p1818 | tp1819 |
| a(g138 | V$| |
| p1820 | tp1821 |
| a(g100 | VPYTHON_VERSION |
| p1822 | tp1823 |
| a(g138 | V |
| tp1824 | a(g6 |
| V.so.1; | p1825 |
```
V:
tp1847
a(g100
VS
tp1848
a(g212
V/thon/thon-shared/
tp1849
tp1850
a(g138
V}
tp1851
a(g6
V\u000a\u000a
p1852
tp1853
a(g6
Vpre-su-install:
tp1854
tp1855
a(g6
V\u000a
p1856
a(g27
V.for platform in ${PLATFORMS}\u000a
p1857
tp1858
a(g6
V
tp1859
a(g138
VS{
tp1860
tp1861
a(g100
VMKDIR
p1862
tp1863
a(g138
V}
tp1864
a(g6
V
tp1865
a(g138
VS{
tp1866
tp1867
a(g100
VPYTHONPREFIX_LIBDIR
p1868
tp1869
a[g138
V]
tp1870
a[g6
V/
tp1871
a[g138
V$\{ 
p1872
tp1873
a[g100
Vplatform
p1874
tp1875
a[g138
V]
tp1876
a[g6
V\u000a
tp1877
a[g27
V.for file in IN.py regen\u000a
p1878
tp1879
a[g6
V
tp1880
a[g138
V$\{ 
p1881
tp1882
a[g100
VINSTALL_DATA
p1883
tp1884
a[g138
V]
tp1885
a[g6
V
tp1886
a[g138
V$\{ 
p1887
if openssl 0.9.8 is detected, _sha[256,512] module won’t be installed.
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11810
Open Source Used In Virtualized Infrastructure Manager 3.4.0
post-install:

@# install config providers

VINSTALL_SCRIPT

VWRKDIR
Open Source Used In Virtualized Infrastructure Manager 3.4.0

11815
a(g100
VINSTALL_SCRIPT
p2096
tp2097
a(g138
V}
,tp2098
a(g6
V
,tp2099
a(g138
V$ {
p2100
tp2101
a(g100
VWRKDIR
p2102
tp2103
a(g138
V}
,tp2104
a(g6
V/
,tp2105
a(g138
V$ {
p2106
tp2107
a(g100
VPYTHON_VERSION
p2108
tp2109
a(g212
V:
,tp2110
a(g100
VS
,tp2111
a(g212
V/thon/thon-shared/
p2112
tp2113
a(g138
V}
,tp2114
a(g6
V-config
p2115
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11819
VPYTHON_VERSION

V-sf
p2181
tp2182
at(g6
V
tp2183
at(g6
Vlib
p2184
tp2185
at(g138
V$
 p2186
tp2187
at(g100
VPYTHON_VERSION

p2188
tp2189
at(g138
V}
tp2190
at(g6
V.so.1
p2191
tp2192
at(g6
V
tp2193
at(g262
V\u005c\u000a
 p2194
tp2195
at(g6
V
p2196
tp2197
at(g6
Vlib
p2198
tp2199
at(g138
V$
 p2200
tp2201
at(g100
VPYTHON_VERSION

p2202
tp2203
VS{
p2225
tp2226
ag100
VPYTHON_VERSION
p2227
tp2228
ag138
V}
tp2229
ag6
V.so
p2230
tp2231
ag6
V
tp2232
ag138
VS{
p2233
tp2234
ag100
VPYTHONPREFIX_LIBDIR
p2235
tp2236
ag138
V}
tp2237
ag6
V/config
p2238
tp2239
ag6
V\u000a
p2240
tp2241
ag138
VS{
p2242
tp2243
ag100
VINSTALL_PROGRAM
p2244
tp2245
ag138
V}
tp2246
ag6
V
	 tp2247
	 a(g262
V\u005c\u000a
p2248
	 tp2249
	 a(g6
V
p2250
	 tp2251
	 a(g138
VS{
p2252
	 tp2253
	 a(g100
VSHARED_WRKSRC
p2254
	 tp2255
	 a(g138
V}
tp2256
	 a(g6
V/
tp2257
	 a(g138
VS{
p2258
	 tp2259
	 a(g100
VPYTHON_VERSION
p2260
	 tp2261
	 a(g212
V:
tp2262
	 a(g100
VS
tp2263
	 a(g212
V/thon/thon-shared/
p2264
	 tp2265
	 a(g138
V}
tp2266
	 a(g6
V
tp2267
V\u000c\u000a
p2268
tp2269
a\g6
V
p2270
tp2271
a\g138
VS
p2272
tp2273
a\g100
VPREFIX
p2274
tp2275
a\g138
V]
tp2276
a\g6
V/bin
p2277
tp2278
a\g6
V\u000c\u000a
p2279
tp2280
a\g24
V## additional files installing by ports\u000a
p2281
tp2282
a\g6
V
tp2283
a\g138
VS
p2284
tp2285
a\g100
VINSTALL_SCRIPT
p2286
tp2287
a\g138
V]
tp2288
a\g6
V
tp2289
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

p2377
atg6
V
p2379
atg138
Vfor
p2380
tp2381
atg6
Vf
p2382
atg6
V
p2383
atg6
Vin
p2384
tp2385
atg6
V
p2386
atg138
V$\
\}p2387
tp2388
atg100
VBIN_SCRIPTS
p2389
tp2390
atg138
V]\tp2391
atg6
V;
tp2392
atg6
Vtp2393
atg138
Vdo
p2394
tp2395
atg6
Vtp2396
atg262
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11836
a(g138 V}
tp2542 a(g6 V
tp2543 a(g6 V-xf
p2544 tp2545 a(g6 V
tp2546 a(g6 V-
tp2547 a(g353 V)
tp2548 a(g6 V\u000a p2549 tp2550 a(g6 V@
tp2551 a(g138 VS{ p2552 tp2553 a(g100 VMKDIR
p2554 tp2555 a(g138 V}
tp2556 a(g6 V
tp2557 a(g138 VS{ p2558 tp2559 a(g100 VDEMODIR
VDEMODIR
p2601
tp2602
a(g138
V)
tp2603
a(g6
V;
tp2604
a(g6
V
tp2605
a(g138
V$\{ p2606
tp2607
a(g100
VTAR
p2608
tp2609
a(g138
V)tp2610
a(g6
V
tp2611
a(g6
V-xf
p2612
tp2613
a(g6
V
tp2614
a(g6
V-

tp2615
a(g353
V)tp2616
a(g6
Vuu000a

tp2617
a(g27
V.endif\uu000a
p2618
tp2619
a(g6
V\uu000a
1.559 python-pymongo 3.0.3 :2.el7ost
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1.561 python-pyroute2 0.4.21 :1.el7ost

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1.566.1 Available under license :
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============

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1.576 python-schedutils 0.4 :6.el7

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1.578 python-scss 1.3.4 :7.el7ost
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1.579 python-setproctitle 1.1.9 :5.el7ost

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1.580 python-setuptools 0.9.8 :7.el7

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1.584 python-sqlalchemy-utils 0.31.3 :2.el7ost
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1.585 python-statsd 3.2.1 :5.el7ost

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1.586 python-stevedore 1.28.0 :1.el7ost

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1.588 python-sysv_ipc 0.7.0 :4.el7ost

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FastLZ - lightning-fast lossless compression library

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LZ4 - Fast LZ compression algorithm

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**:4.20170523git1f38ac.el7ost**

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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * Non-multipart encoding for POST requests

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  * Support for TLS SNI
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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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  * 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@elastichosts.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 <juanych@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 @dbgrn <http://dbgrn.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

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  * 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

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  * 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

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.
* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.600 python-vine 1.1.3 :2.el7ost

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1.601 python-voluptuous 0.10.5 :2.el7ost

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1.602 python-waitress 0.8.10 :1.el7ost

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1.603 python-weakrefmethod 1.0.2 :3.el7ost

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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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1.604 python-webob 1.7.2 :1.el7ost
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1.610 python-wsme 0.9.3 :1.el7ost
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1.612 python-XStatic-Angular 1.5.8.0 :1.el7ost

1.613 python-XStatic-Angular-Bootstrap 2.2.0.0 :1.el7ost

1.614 python-XStatic-Angular-Gettext 2.3.8.0 :1.el7ost

1.615 python-XStatic-Bootstrap-SCSS 3.3.7.1 :2.el7ost

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1.616 python-XStatic-bootswatch 3.3.7.0
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1.617 python-XStatic-D3 3.5.17.0 :1.el7ost

1.618 python-XStatic-Font-Awesome 4.7.0.0
:3.el7ost

1.619 python-XStatic-Jasmine 2.4.1.1
:1.el7ost
1.620 python-XStatic-jquery-ui 1.10.4.1 :1.el7ost.1

1.621 python-XStatic-JSEncrypt 2.3.1.1 :1.el7ost

1.622 python-XStatic-mdi 1.4.57.0 :4.el7ost

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That's all there is to it!
1.631 PyYAML 3.10

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1.632 qrencode 3.4.1

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1.647 rhnsd 5.0.13 :10.el7

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1.651 rsync 3.1.2 :6.el7_6.1

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-------------------------------------------------------------------------
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To: Jarrod Millman <millman AT berkeley DOT edu>
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen
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Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
I'm writing to see if we can get an exception to the Blitz license so that it can be released with a BSD license within SciPy. Currently, the Fedora project is classifying the entire SciPy package as GPLed because one package, scipy.weave, uses blitz. (the rest of the code is all BSD). We were about to launch into the re-factoring step to make the blitz portion optional, when it occurred to us to just ask you guys first. :-)

Blitz is included in the scipy.weave package which allows you to inline C/C++ within Python. Users have the option of converting NumPy arrays to blitz arrays for use in C++. There is also a function (weave.blitz) that will automatically convert NumPy expressions in Python to Blitz expressions in C++. Often this shows notable speed improvements. Our re-factoring step will require us to split the blitz code into the blitz and non-blitz portions. This is a bit of a pain, and ends up with more installation issues than if we didn't do it.

Thanks for your consideration,

--

Jarrod Millman
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files split from toms/big644 on 1 Dec 1987 (already public)
------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years. The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.

* The i1mach, r1mach, d1mach routines supplied here are not the official netlib versions. They are said to be enhanced copies of the 1975 release. If you have troubles, try mailing to netlib
* send i1mach r1mach d1mach from blas
* and see if that helps.

prehistoric
This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)
   David K. Kahaner
   Scientific Computing Division
   National Bureau of Standards
   Washington DC 20234

WARNING: the calling sequences here differ from those in the book:
R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner
Quadpack: a Subroutine Package for Automatic Integration
Springer Verlag, 1983. Series in Computational Mathematics v.1
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1.655 scl-utils 20130529 :19.el7

1.656 screen 4.1.0
:0.25.20120314git3c2946.el7
1.656.1 Available under license :
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Version 3, 29 June 2007

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1.660 sed 4.2.2:5.el7

1.660.1 Available under license:

==============
Test 1.1:101
==============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
Test 1.2:102

Test 1.3:103
Test 1.4:104

Second type

Test 1.4.1:105
11_9
11_10
11_11
11_12
11_13
11_14

=============
Test 1.5:106
=============
s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3
s1_11_3
s1_11_4
s1_11_4
s1_11_5
s1_11_5
s1_11_6
s1_11_6
s1_11_7
s1_11_7
s1_11_8
s1_11_8
s1_11_9
s1_11_9
s1_11_10
s1_11_10
s1_11_11
s1_11_11
s1_11_12
s1_11_12
s1_11_13
s1_11_13
s1_11_14
s1_11_14

=============
Test 1.6:107
=============
s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3
s1_11_3
Test 1.8:109

Test 1.9:110

---

e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

---

s1_l1_1
s1_l1_2
s1_l1_3
s1_l1_4
s1_l1_5
s1_l1_6

---
Test 1.10:111

Test 1.11:112

Test 1.12:113
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

=============  
Test 1.14:115
=============  
s1_l1_1  
s2_s1_l1_1  
s2_s1_l1_1  
s1_l1_2  
s2_s1_l1_2  
s2_s1_l1_2  
s1_l1_3  
s2_s1_l1_3  
s2_s1_l1_3  
s1_l1_4  
s2_s1_l1_4  
s2_s1_l1_4  
s1_l1_5  
s2_s1_l1_5  
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s1_l1_7  
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s1_l1_8  
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s2_s1_l1_8  
s1_l1_9  
s2_s1_l1_9  
s2_s1_l1_9  
s1_l1_10  
s2_s1_l1_10  
s2_s1_l1_10  
s1_l1_11  
s2_s1_l1_11
Test 1.15:116

-------------------
e1_l1_1  
es1_e1_l1_1  
es1_e1_l1_1  
e1_l1_2  
es1_e1_l1_2  
es1_e1_l1_2  
e1_l1_3  
es1_e1_l1_3  
es1_e1_l1_3  
e1_l1_4  
es1_e1_l1_4  
es1_e1_l1_4  
e1_l1_5  
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e1_l1_10  
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es1_e1_l1_10  
e1_l1_11  
es1_e1_l1_11  
es1_e1_l1_11  
e1_l1_12  
es1_e1_l1_12  
es1_e1_l1_12

-------------------
Test 1.16:117

----------
Test 1.17:118
Testing address ranges

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123

Test 2.5:124
<table>
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<td>l1_7</td>
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</table>

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<th>Test 2.11:129</th>
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<tbody>
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<td>l1_7</td>
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</tbody>
</table>

<table>
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<th>Test 2.12:130</th>
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<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 2.13:131</th>
</tr>
</thead>
<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_4</td>
</tr>
<tr>
<td>l1_5</td>
</tr>
<tr>
<td>l1_6</td>
</tr>
<tr>
<td>l1_7</td>
</tr>
<tr>
<td>l1_8</td>
</tr>
<tr>
<td>l1_9</td>
</tr>
<tr>
<td>l1_10</td>
</tr>
<tr>
<td>l1_11</td>
</tr>
<tr>
<td>l1_12</td>
</tr>
<tr>
<td>l1_13</td>
</tr>
</tbody>
</table>
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==============
Test 2.14:132
==============
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==============
Test 2.15:133
==============
11_4
11_5
11_6
11_7
11_8
11_9
11_10
Test 3.2:140

11_1
11_2
11_3
^11_4
^11_5
^11_6$
^11_7$
^11T8$
^11_9$
^11_10$
^11_11
^11_12
11_13
11_14

Test 3.3:141

^11T1$
^11T2$
^11T3$
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
^11T13$
^11T14$

Test 3.4:142

^11_1
^11_2
^11_3
11_4
11_5
11_6
11_7
11_8
11_9
Testing a c d and i commands

==============
Test 4.1:143
==============
before_il1_1
after_i
before_il1_1
before_il1_2
after_i
before_il1_2
before_il1_3
after_i
before_il1_3
before_il1_4
after_i
before_il1_4
before_il1_5
after_i
before_il1_5
before_il1_6
after_i
before_il1_6
before_il1_7
after_i
before_il1_7
before_il1_8
after_i
before_il1_8
before_il1_9
after_i
before_il1_9
before_il1_10
after_i
before_il1_10
before_il1_11
after_i
before_il1_11
before_il1_12
after_i
before_il1_12
before_il1_13
after_i
before_il1_13
before_il1_14
after_i
before_il1_14
before_il2_1
after_i
before_il2_1
before_il2_2
after_i
before_il2_2
before_il2_3
after_i
before_il2_3
before_il2_4
after_i
before_il2_4
before_il2_5
after_i
before_il2_5
before_il2_6
inserted
after_i before_il2_6
before_il2_7
after_i before_il2_7
before_il2_8
after_i before_il2_8
before_il2_9
after_i before_il2_9

=============
Test 4.2:144
============
before_al1_1
after_a before_al1_1
before_al1_2
after_a before_al1_2
before_al1_3
after_a before_al1_3
before_al1_4
after_a before_al1_4
before_a5-1211_5
after_a before_a5-1211_5
appended
before_a5-1211_6
after_a before_a5-1211_6
appended
before_a5-1211_7
after_a before_a5-1211_7
appended
before_a5-1211_8
after_a before_a5-1211_8
appended
before_a5-1211_9
after_a before_a5-1211_9
appended
before_a5-1211_10
after_a before_a5-1211_10
appended
before_a5-1211_11
after_a before_a5-1211_11
appended
before_a5-1211_12
after_a before_a5-1211_12
appended
before_al1_13
after_a before_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

============
Test 4.3:145
============
^l1_1
l1_1$
appended
^l1_2
l1_2$
appended
^l1_3
l1_3$
appended
^l1_4
l1_4$
appended
^l1_5
l1_5$
appended
^l1_6
l1_6$
appended
^l1_7
l1_7$
appended
^l1_8
l1_8
appended
^l1_8
l1_9$
Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

Test 4.5:147
hello

Test 4.6:148
hello

Test 4.7:149
hello

Test 4.8:150
Testing labels and branching

Test 5.1:151
label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

Test 5.2:152
tested l2_1
tested l2_2
tested lw.3
tested lw.4
tested lw.5
tested lw.6
tested lw.7
tested lw.8
tested lw.9
tested lw.10
tested lw.11
tested lw.12
tested lw.13
tested lw.14

==============
Test 5.3:153
==============
^lw.1$  
^lw.1$  
^lw.2$  
^lw.2$  
^lw.3$  
^lw.3$  
^lw.4$  
^lw.4$  
^lw.5$  
^lw.5$  
^lw.6$  
^lw.6$  
^lw.7$  
^lw.7$  
^lw.8$  
^lw.8$  

==============
Test 5.4:154
==============
^lw.1$  
^lw.1$  
^lw.2$  
^lw.2$  
^lw.3$  
^lw.3$  
^lw.4$  
^lw.4$  
^lw.5$  
^lw.5$  
^lw.6$  
^lw.6$  
^lw.7$  
^lw.7$  
^lw.8$  
^lw.8$  
^lw.9$  
^lw.9$  
^lw.10$  
^lw.10$  
^lw.11$  
^lw.11$  
^lw.12$  
^lw.12$  
^lw.13$  
^lw.13$  
^lw.14$  
^lw.14$  

==============
Test 5.5:155
-------------
^H1_1
^H1_2
^H1_4
^H1_6
^H1_8

-------------
Test 5.6:156
-------------
11_1
11_2
11_3
11_4
11_5

-------------
Test 5.7:157
-------------
11_1
11_2
11_3
11_4
hello
11_5

-------------
Test 5.8:158
-------------
m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14
Pattern space commands

-------------
Test 6.1:159
Test 6.2:160

l1_1
l1_2
l1_3
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

Test 6.3:161

l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
Test 6.4:162

-----------
I1_1
I1_2
I1_3
I1_2
I1_3
I1_5
I1_2
I1_3
I1_2
I1_3
I1_6
I1_6
I1_7
I1_8
I1_9
I1_10
I1_11
I1_12
I1_13
I1_14

-----------
Test 6.5:163

-----------
I1_1
I1_2
I1_3
I1_4
I1_5
I1_6
I1_7
I1_8
I1_9
I1_10
I1_11
I1_12
I1_13
I1_14

-----------
Test 6.6:164

-----------
Testing print and file routines

-----------
Test 7.1:165
Test 7.2:166
23
l2_9

==========
Test 7.3:167
==========
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
w results
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12

==========
Test 7.4:168
==========
11_1
11_2
11_3
11_4
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9
Test 7.5:169

Test 7.6:170
Test 7.8:171

Testing substitution commands

Test 8.1:172

Test 8.2:173

Test 8.3:174
Test 8.4:175

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

Test 8.5:176

l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
l1X13
l1X14
Test 8.6:177
===============
(l)(1)__(1)
(l)(1)__(2)
(l)(1)__(3)
(l)(1)__(4)
(l)(1)__(5)
(l)(1)__(6)
(l)(1)__(7)
(l)(1)__(8)
(l)(1)__(9)
(l)(1)__(1)(0)
(l)(1)__(1)(1)
(l)(1)__(1)(2)
(l)(1)__(1)(3)
(l)(1)__(1)(4)

Test 8.7:178
===============
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)
(&)(&)&(&)&(&)

Test 8.8:179
===============
x_x1xl1
x_x1xl2
x_x1xl3
x_x1xl4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
x_x1xl9
x_x1xl10
x_x1x11
x_x1x112
x_x1x113
x_x1x114

--------------
Test 8.9:180
--------------
l1u0
u1
u21
l1u0
u1
u22
l1u0
u1
u23
l1u0
u1
u24
l1u0
u1
u25
l1u0
u1
u26
l1u0
u1
u27
l1u0
u1
u28
l1u0
u1
u29
l1u0
u1
u210
l1u0
u1
u211
l1u0
u1
u212
l1u0
u1
u213
l1u0
u1
u214

=============
Test 8.10:181
==============
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X0
l1_X1
l1_X2
l1_X3
l1_X4

=============  
Test 8.11:182  
==============
lX_1
lX_2
lX_3
lX_4
lX_5
lX_6
lX_7
lX_8
lX_9
lX_10
lX_11
lX_12
lX_13
lX_14
s wfile results
lX_1
lX_2
lX_3
lX_4
lX_5
lX_6
lX_7
lX_8
lX_9
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Version 3, 29 June 2007

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Douglas Gilbert
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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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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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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 derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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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<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.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That’s all there is to it!
1.682.1 Available under license:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
body {
    margin: auto;
    font-family: Verdana, sans-serif;
    padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
    float:right;
    text-align:right;
    font-style:italic;
    width:300px;
    margin:12px;
    margin-top:58px;
}

.menubar {
    clear: both;
    border-radius: 8px;
    background: #044a64;
    padding: 0px;
    margin: 0px;
    cell-spacing: 0px;
}
.toolbar {
    text-align: center;
    line-height: 1.6em;
    margin: 0;
    padding: 0px 8px;
}
.toolbar a { color: white; text-decoration: none; padding: 6px 12px; }
.toolbar a:visited { color: white; }
.toolbar a:hover { color: #044a64; background: white; }

.content    { margin: 5%; }
.content dt { font-weight:bold; }
.content dd { margin-bottom: 25px; margin-left:20%; }
.content ul { padding:0px; padding-left: 15px; margin:0px; }
```
<!-- container div to satisfy validator -->

<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" height="100" width="100"

</svg>
</div>

<a href="index.html">
  <img class="logo" src="images/sqlite370_banner.gif" alt="SQLite Logo" border="0"></a>

<div class="tagline">Small. Fast. Reliable.<br>Choose any three.</div>

<table width=100% class="menubar">
<tr><td width=100%>
<div class="toolbar">
  <a href="about.html">About</a>
  <a href="sitemap.html">Sitemap</a>
  <a href="docs.html">Documentation</a>
  <a href="download.html">Download</a>
  <a href="copyright.html">License</a>
  <a href="news.html">News</a>
  <a href="support.html">Support</a>
</div>

<script>
  gMsg = "Search SQLite Docs..."
  function entersearch() {
    var q = document.getElementById("q");
    if (q.value == gMsg) { q.value = "" }
</script>

function leavesearch() {
    var q = document.getElementById("q");
    if (q.value == "") {
        q.value = gMsg
        q.style.color = 
        q.style.fontStyle = "italic"
    }
}
</script>
<td>
<form name=f method="GET" action="http://www.sqlite.org/search">
    <input id=q name=q type=text onfocus="entersearch()" onblur="leavesearch()" style="width:24ex;padding:1px 1ex; border:solid white 1px; font-size:0.9em ; font-style:italic;color:#044a64;" value="Search SQLite Docs...">
    <input type=submit value="Go" style="border:solid white 1px;background-color:#044a64;color:white;font-size:0.9em;padding:0 1ex">
</form>
</td>
</table>
<div class=startsearch></div>

<h2>SQLite Copyright</h2>
<table align="right" vspace="0" hspace="10" border="1" cellpadding="20">
    <tr><td align="center">
        <img src="images/nocopy.gif">
    </td></tr>
</table>
<p>
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The previous paragraph applies to the deliverable code in SQLite - those parts of the SQLite library that you actually bundle and ship with a larger application. Portions of the documentation and some code used as part of the build process might fall under other licenses. The details here are unclear. We do not worry about the licensing of the documentation and build code so much because none of these things are part of the core deliverable SQLite library.

All of the deliverable code in SQLite has been written from scratch. No code has been taken from other projects or from the open internet. Every line of code can be traced back to its original author, and all of those authors have public domain dedications on file. So the SQLite code base is clean and is uncontaminated with licensed code from other projects.

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</p>

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</p>

<blockquote>
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In addition, if you make
changes or enhancements as an employee, then a simple statement such as the
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<blockquote>Hwaci<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>USA</blockquote>

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</p></li>

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</p></li>

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I agree never to publish on the SQLite website any information that
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</p></li>

</ol>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td>
<td valign="top" align="left">
Date:
</td>
</tr>
<tr>
<td>&nbsp;</td>
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</tr>
</table>
</p>
1.683 squashfs-tools 4.3 :0.21.gitaae0aff4.el7

1.683.1 Available under license:
From RPM File Metadata:GPLv2+

1.684 sshpass 1.06 :2.el7

1.684.1 Available under license:

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Version 2, June 1991

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1.689 sudo 1.8.23 :3.el7

1.689.1 Available under license :

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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
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
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Calvin, Gary
Campbell, Aaron
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ek, Vtzslav
Coleman, Chris
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1.692 syslinux 4.05 :15.el7

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989 
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A few files are inherited from FreeBSD netboot and therefore can be 
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the file shall be override this file.

File Copyright status

src/core/misc.c BSD
src/drivers/net/3c509.c BSD
src/drivers/net/3c509.h BSD
src/drivers/net/3c595.c BSD
src/drivers/net/3c595.h BSD
src/drivers/net/3c90x.c Open Source
src/drivers/net/epic100.c None
src/drivers/net/epic100.h None
src/drivers/net/ns8390.c BSD
src/drivers/net/ns8390.h BSD
src/arch/i386/include/bits/string.h None

1.693 sysstat 10.1.5 :17.el7
1.693.1 Available under license :

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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,

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest 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.

<one line to give the program's name and a brief idea of what it does.>
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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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1.694 systemd 219 :62.el7_6.7
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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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"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.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form 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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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
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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
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a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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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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1.696 tar 1.26 :35.el7

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b) Use a suitable shared library mechanism for linking with the
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1.712 tzdata 2019a :1.el7

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1.713 unbound 1.6.6 :1.el7

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1.718 userspace-rcu 0.7.16 :2.el7cp

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Mathieu Desnoyers
May 13th, 2009

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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1.719 userspace-rcu 0.7.16 :1.el7
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Mathieu Desnoyers
May 13th, 2009

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.
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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Arnaud LE HORS    BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
    " Remove any old syntax stuff hanging around
    syn clear
elseif exists("b:current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match
Some of the attributes covered by attUnquotString and attQuotString:

- architecture category_tag control_directory copyright
- create_date description directory file_permissions install_source
- install_type location machine_type mod_date number os_name os_release
- os_version pose_as_os_name pose_as_os_release readme revision
- share_link title vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.

For version 5.7 and earlier: only when not done already

For version 5.8 and later: only when an item doesn't have highlighting yet

if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*   For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL   by Bram Moolenaar

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

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

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

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

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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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4) The contact information as required under 2)a) and 2)d) must not be
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=== end of license ===

Note:

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

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

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

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

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

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

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

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
   Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
1.722 virt-manager 1.5.0 :1.el7

1.722.1 Available under license :

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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):
                     
    def __init__(self, elem=None):
        self._md = {
            'from'     : '',
            'type'     : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
                          
    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from'     : '',
            'type'     : '',
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
        else:
            return '<unknown>'
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
        else:
            return '<unknown>'
        
        def _rid(un):
            if hasattr(un, '_repoid') and un._repoid is not None:
                return un._repoid
            else:
                return '<unknown>'

@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            return un._repoid
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
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        if type(item) is int:
            return un._repoid
@@ -103,6 +106,24 @@ class UpdateNotice(object):
                          
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']).  ""
        if type(item) is int:
            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(logginglevels.DEBUG_3, msg)
if not other or not hasattr(other, '_md'):
return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
if data == 'status': # FIXME: See below...
continue
if self._md[data] != other._md[data]:
+
_log_failure(data)
return False
# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
data = 'status'
if self._md[data] != other._md[data]:
if self._md[data] not in ('stable', 'testing'):
+
_log_failure(data)
return False
if other._md[data] not in ('stable', 'testing'):
+
_log_failure(data)
return False
# They are both really "stable" ...
self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
for event, elem in safe_iterparse(infile, logger=self._logger):
if elem.tag == 'update':
try:
un = UpdateNotice(elem)
+
un = UpdateNotice(elem, repoid, self._vlogger)
except UpdateNoticeException, e:
msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
_rid(repoid))
if not have_dup:
msg += _('\nYou should report this problem to the owner of the %srepository.') % _rid(repoid, "%s ")
+
msg += _('\nIf you are the owner, consider re-running the same command with --verbose to see the '
+
'exact data that caused the conflict.')
have_dup = True
if self._vlogger:
self._vlogger.warn("%s", msg)
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):

Open Source Used In Virtualized Infrastructure Manager 3.4.0
13228


except Errors.RepoMD_Error:
    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 @@

        other_arch_list = []
        notices = set()
        for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
                for pkg in upkg['packages']:
                    other_arch = False
                        if pkg['name'] != name or pkg['arch'] != arch:
                    continue
                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                            other_arch = True
                        else:
                            continue
                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                        pkg['version'], pkg['release'])
        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
            continue
        ret.append((pkgtup, notice))
        if other_arch:
            other_arch_list.append((pkgtup, notice))
        else:
            ret.append((pkgtup, notice))
            notices.add(notice)
    for pkgtup, notice in other_arch_list:
        if notice not in notices:
        ret.append((pkgtup, notice))
    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@
import logginglevels

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

1.735 yum-metadata-parser 1.1.4 :10.el7
1.735.1 Available under license :
   From RPM File Metadata:GPLv2

1.736 yum-rhn-plugin 2.0.1 :10.el7
1.736.1 Available under license :
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1.737 yum-utils 1.1.31 :50.el7
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