Open Source Used In Network Function Virtualization Infrastructure System Release 3.9.1

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1.5 acorn 0.11.0
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1.6 Activation 1.1 1.1

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1.9 akka-slf4j_2.11 2.3.4

1.10 alsalib 1.0.22 :3.el6

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### 1.11 alsa-utils 1.0.22 :9.el6_6

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1.43 are-we-there-yet 1.0.5

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-------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (see http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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set -e

# Command line arguments:
# $1 event that happened:
#   BIND: Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
  BIND)
    ifconfig "$2" "$3"/16
    ;;
  CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
    ;;
  *)
    echo "Unknown event $1" >&2
    exit 1
    ;;
  esac

exit 0

1.81 avaje-ebeanorm 3.3.4
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1.93 backo2 1.0.2

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1.98 batch 0.5.3

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1.99 bc 1.51

1.100 bcel 5.2 :7.2.el6

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1.113 body-parser 1.15.0

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1.114 body-parser 1.14.2

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1.115 body-parser 1.8.4

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1.116 bonecp 0.8.0.RELEASE

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1.120 bootstrap-datepicker.js n/a

1.121 bootstrap-daterangepicker.js 1.3.13

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1.122 bootstrap-tagsinput.min.js 0.5

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1.123 bootstrap-timepicker.js 0.2.6

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1.126 braces 1.8.3

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1.127 browser-sync 2.11.1

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1.128 browser-sync-client 2.4.1

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1.129 browser-sync-ui 0.5.18

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1.132 btrace-boot 1.2.3

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1.150 cglib-nodep 2.2.2

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1.155 Class Model for Hk2 2.4.0-b06

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1.211 core-util-is 1.0.2

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

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

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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1.213 crc 3.0.0

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<one line to give the program's name and a brief idea of what it does.>
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>signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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   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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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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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/*

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#
# Clean up the history file.  10 Record types: MAR OFT WUCG

1.219 cyrus-sasl 2.1.26 :21.el7

1.219.1 Available under license:

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```
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```
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

/*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSIDL_IB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJJS)
(cd pic; ld -e Bshareable -o $(BSD_LIB) $$(LDFLAGS) $$(OBJJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall: $(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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1.273 ehcache-core 2.6.8

1.274 elfutils 0.168 :8.el7

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1.283 engine.io-parser 1.2.4

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1.291 event-stream 3.3.2

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1.292 eventemitter3 1.1.1

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1.293 exabgp 3.2.16

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1.295 expand-range 1.8.1

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1.296 expat 2.1.0 :10.el7_3

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1.297 expat_PrintPath 2.1.0 :8.el7

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 */
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import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;

public interface EncodingAlgorithm {

    public Object decodeFromBytes(byte[] b, int start, int length) throws EncodingAlgorithmException;

    public Object decodeFromInputStream(InputStream s) throws EncodingAlgorithmException, IOException;

    public void encodeToOutputStream(Object data, OutputStream s) throws EncodingAlgorithmException, IOException;

    public Object convertFromCharacters(char[] ch, int start, int length) throws EncodingAlgorithmException;

    public void convertToCharacters(Object data, StringBuffer s) throws EncodingAlgorithmException;

}

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1.309 filename-regex 2.0.0

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1.310 fill-range 2.2.3

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1.311 finalhandler 0.4.1

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1.313 find-index 0.1.1

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1.314 find-up 1.1.0

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1.318 findup-sync 0.2.1

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1.319 first-chunk-stream 1.0.0

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1.320 flagged-respawn 0.3.1

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1.321 flex_LGPLv2 2.5.37 :3.el7

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1.324 fontconfig 2.8.0 :5.el6

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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.>
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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

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Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
@end enumerate

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo

@page
@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs

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

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}
@end example

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@example
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:

@example
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end example

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

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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@unnumberedsubsec Preamble

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medium customarily used for software interchange.

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@enumerate
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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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1.378 graceful-fs 1.2.3

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The primary ANTLR guy:

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1.384 Groovy 2.3 :11

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1.385 grub2 2.02 :0.65.el7.centos.2

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From 0df1a50e41fb12fbeb6709575e5f12d64ed73b66 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH 085/260] * grub-core/loader/i386/bsd.c (grub_netbsd_boot):
Pass pointer to EFI system table.

---
ChangeLog | 5 ++++
grub-core/loader/i386/bsd.c | 8 +++++++
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
3 files changed, 20 insertions(+)

diff --git a/ChangeLog b/ChangeLog
index abf8f4b27..0cdd095a4 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,5 +1,10 @@
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
EFI system table physical address.

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109e..8f691e0e2 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
+
{
  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 e48c19b40..9b4f46041 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
{
  @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16
+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif
--
2.13.0

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1.386 Gson 2.3.1

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 */

package com.google.gson.internal;

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 * 
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {
    }

    /** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

    /** A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    // Sad that we can't use a BiMap. :
    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);
        add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
        add(primToWrap, wrapToPrim, byte.class, Byte.class);
        add(primToWrap, wrapToPrim, char.class, Character.class);
        add(primToWrap, wrapToPrim, double.class, Double.class);
        add(primToWrap, wrapToPrim, float.class, Float.class);
        add(primToWrap, wrapToPrim, int.class, Integer.class);
        add(primToWrap, wrapToPrim, long.class, Long.class);
        add(primToWrap, wrapToPrim, short.class, Short.class);
        add(primToWrap, wrapToPrim, void.class, Void.class);
        PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
        WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
    }

    private static void add(Map<Class<?>, Class<?>> forward,
            Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
        forward.put(key, value);
        backward.put(value, key);
    }

    /**
     * Returns true if this type is a primitive.
     */
    public static boolean isPrimitive(Type type) {
        return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
    }
}
/**
 * Returns [code true] if [code type] is one of the nine
 * primitive-wrapper types, such as [link Integer].
 *
 * @see Class#isPrimitive
 *
 * @param type
 * @return boolean
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
            $Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of [code type] if it is a primitive
 * type; otherwise returns [code type] itself. Idempotent.
 *<pre>
 *     wrap(int.class) == Integer.class
 *     wrap(Integer.class) == Integer.class
 *     wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
            $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of [code type] if it is a
 * wrapper type; otherwise returns [code type] itself. Idempotent.
 *<pre>
 *     unwrap(Integer.class) == int.class
 *     unwrap(int.class) == int.class
 *     unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
            $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}

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Version 2.0, January 2004
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1.388 gtk2 2.24.23 :6.el6

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Version 2.1, February 1999

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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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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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(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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1.412 has-ansi 0.1.0

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1.415 has-binary-data 0.1.3

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1.419 has-unicode 1.0.1

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1.421 hawk 3.1.2

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1.425 hibernate-c3p0 4.3.8-Final
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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* Brian Langel

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1.443 hosted-git-info 2.1.4

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1.445 http-errors 1.3.1

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1.446 http-proxy 1.13.2

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1.449 httpClient 4.1.2

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* (Deinst@world.std.com). David and I are now
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* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.

* Special thanks also go to La' szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.

* /

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### 1.523 jackson-mapper-asl 1.9.2

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2.4.5

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1.1

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1.1

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/ *
* @(#)ASCIIUtility.java 1.11 07/05/04
*/
package com.sun.mail.util;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.InputStream;
import java.io.IOException;

public class ASCIIUtility {

    // Private constructor so that this class is not instantiated
    private ASCIIUtility() {} }

    /**
     * Convert the bytes within the specified range of the given byte
     * array into a signed integer in the given radix . The range extends
     * from <code>start</code> till, but not including <code>end</code>. <p>
     * Based on java.lang,Integer.parseInt()
     */
public static int parseInt(byte[] b, int start, int end, int radix) throws NumberFormatException {
    if (b == null)
        throw new NumberFormatException("null");

    int result = 0;
    boolean negative = false;
    int i = start;
    int limit;
    int multmin;
    int digit;

    if (end > start) {
        if (b[i] == '-') {
            negative = true;
            limit = Integer.MIN_VALUE;
            i++;
            limit = -Integer.MAX_VALUE;
        } else {
            limit = -Integer.MAX_VALUE;
        }
        multmin = limit / radix;
        if (i < end) {
            digit = Character.digit((char)b[i++], radix);
            if (digit < 0) {
                throw new NumberFormatException("illegal number: " + toString(b, start, end));
            } else {
                result = -digit;
            }
        }
        while (i < end) {
            // Accumulating negatively avoids surprises near MAX_VALUE
            digit = Character.digit((char)b[i++], radix);
            if (digit < 0) {
                throw new NumberFormatException("illegal number");
            }
            if (result < multmin) {
                throw new NumberFormatException("illegal number");
            }
            result *= radix;
            if (result < limit + digit) {
                throw new NumberFormatException("illegal number");
            }
            result -= digit;
        }
    } else {
        throw new NumberFormatException("illegal number");
    }
if (negative) {
    if (i > start + 1) {
        return result;
    } else { /* Only got "-" */
        throw new NumberFormatException("illegal number");
    }
} else {
    return -result;
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed integer . The range extends from
 * <code>start</code> till, but not including <code>end</code>. <p>
 */
public static int parseInt(byte[] b, int start, int end)
throws NumberFormatException {
    return parseInt(b, start, end, 10);
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed long in the given radix . The range extends
 * from <code>start</code> till, but not including <code>end</code>. <p>
 * Based on java.lang.Long.parseLong()
 */
public static long parseLong(byte[] b, int start, int end, int radix)
throws NumberFormatException {
    if (b == null)
        throw new NumberFormatException("null");
    long result = 0;
    boolean negative = false;
    int i = start;
    long limit;
    long multmin;
    int digit;

    if (end > start) {
        if (b[i] == '-') {
            negative = true;
            limit = Long.MIN_VALUE;
            i++;
        } else {
            limit = -Long.MAX_VALUE;
        }
    }
    }
multmin = limit / radix;
if (i < end) {
digit = Character.digit((char)b[i++], radix);
if (digit < 0) {
    throw new NumberFormatException("illegal number: " + toString(b, start, end));
} else {
    result = -digit;
}
}
while (i < end) {
    // Accumulating negatively avoids surprises near MAX_VALUE
    digit = Character.digit((char)b[i++], radix);
    if (digit < 0) {
        throw new NumberFormatException("illegal number");
    } if (result < multmin) {
        throw new NumberFormatException("illegal number");
    }
    result *= radix;
    if (result < limit + digit) {
        throw new NumberFormatException("illegal number");
    }
    result -= digit;
} else {
    throw new NumberFormatException("illegal number");
}
if (negative) {
    if (i > start + 1) {
return result;
    } else /* Only got "." */
throw new NumberFormatException("illegal number");
} else {
return -result;
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a signed long. The range extends from
 * <code>start</code> till, but not including <code>end</code>. <p>
 */
public static long parseLong(byte[] b, int start, int end)
throws NumberFormatException {
}
return parseLong(b, start, end, 10);
}

/**
 * Convert the bytes within the specified range of the given byte
 * array into a String. The range extends from <code>start</code>
 * till, but not including <code>end</code>. <p>
 */
public static String toString(byte[] b, int start, int end) {
    int size = end - start;
    char[] theChars = new char[size];

    for (int i = 0, j = start; i < size; )
        theChars[i++] = (char)(b[j++]&0xff);

    return new String(theChars);
}

public static String toString(ByteArrayInputStream is) {
    int size = is.available();
    char[] theChars = new char[size];
    byte[] bytes    = new byte[size];

    is.read(bytes, 0, size);
    for (int i = 0; i < size;)
        theChars[i] = (char)(bytes[i++]&0xff);

    return new String(theChars);
}

public static byte[] getBytes(String s) {
    char[] chars = s.toCharArray();
    int size = chars.length;
    byte[] bytes = new byte[size];

    for (int i = 0; i < size;)
        bytes[i] = (byte) chars[i++];
    return bytes;
}

public static byte[] getBytes(InputStream is) throws IOException {
    int len;
    int size = 1024;
    byte[] buf;
if (is instanceof ByteArrayInputStream) {
    size = is.available();
    buf = new byte[size];
    len = is.read(buf, 0, size);
} else {
    ByteArrayOutputStream bos = new ByteArrayOutputStream();
    buf = new byte[size];
    while ((len = is.read(buf, 0, size)) != -1)
        bos.write(buf, 0, len);
    buf = bos.toByteArray();
}
return buf;

1.551 JavaMail 1.4 1.7.1
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 *
 * This class provides a default implementation of the SAX2
 * [Attributes Attributes] interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.
 *
 * There are two typical uses of this class:
 *
 * - to take a persistent snapshot of an Attributes object
 *   in a [ContentHandler#startElement startElement] event; or
 * - to construct or modify an Attributes object in a SAX2 driver or filter.
 *
 * This class replaces the now-deprecated SAX1 [AttributeListImpl]
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated [AttributeList] interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

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package org.apache.commons.logging;

/**
 * A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by { @link LogFactory }, classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.</p>
 *
 * <p> The six logging levels used by <code>Log</code> are (in order):
 * <ol>
 * <li>trace (the least serious)</li>
 * <li>debug</li>
 * <li>info</li>
 * <li>warn</li>
 * <li>error</li>
 * <li>fatal (the most serious)</li>
 */
* The mapping of these log levels to the concepts used by the underlying
* logging system is implementation dependent.
* The implementation should ensure, though, that this ordering behaves
* as expected.</p>
* 
* Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged). </p>
* 
* For example,
* <code><pre>
* if (log.isDebugEnabled()) {
*     ... do something expensive ...
*     log.debug(theResult);
* }
* </pre></code>
* </p>
* 
* Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
* 
* Please note that this interface is identical to that found in JCL
* 1.1.1.</p>
* 
* @author Scott Sanders
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // /*<p>_-- Logging Properties</p>_*/

    /**
     * Is debug logging currently enabled? </p>
     *
     * Call this method to prevent having to perform expensive operations
     * (for example, String concatenation)
     * when the log level is more than debug. </p>
     */
    public boolean isDebugEnabled();

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

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

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

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

/**
 * <p> Is warn logging currently enabled? </p> *
*<p> Call this method to prevent having to perform expensive operations 
* (for example, <code>String</code> concatenation) 
*
public boolean isWarnEnabled();

/**
 * <p> Log a message with trace log level. </p>
 *
 * @param message log this message
 */
public void trace(Object message);

/**
 * <p> Log an error with trace log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void trace(Object message, Throwable t);

/**
 * <p> Log a message with debug log level. </p>
 *
 * @param message log this message
 */
public void debug(Object message);

/**
 * <p> Log an error with debug log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void debug(Object message, Throwable t);

/**
 * <p> Log a message with info log level. </p>
 *
 * @param message log this message
 */
public void info(Object message);
/**
 * <p>Log an error with info log level.</p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);

/**
 * <p>Log a message with warn log level.</p>
 *
 * @param message log this message
 */
public void warn(Object message);

/**
 * <p>Log an error with warn log level.</p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);

/**
 * <p>Log a message with error log level.</p>
 *
 * @param message log this message
 */
public void error(Object message);

/**
 * <p>Log an error with error log level.</p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);

/**
 * <p>Log a message with fatal log level.</p>
 *
 */
public void fatal(Object message);
*/
public void fatal(Object message);

/**
 * Log an error with fatal log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void fatal(Object message, Throwable t);

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 * 
 * File:     jquery.dataTables.yadcf.js
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 *
 * Author:   Daniel Reznick
 * Info:     https://github.com/vedmack/yadcf
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1.630 jquery.validate.min.js 1.13

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1.631 JRuby Core 1.7.15

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package org.jruby;

/**
 * An almost entirely useless interface for those objects that we _really_ want
 * to finalize.
 *
 * @author pldms
 *
 */

public interface Finalizable {
    public void finalize() throws Throwable;
}

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Jan Holmberg, <jan@artech.net> :
  o Memory framework
  o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
  o MISC checker redesign
  o Scheduler framework extension to support
      child process handling.
  o Daemon framework extension to block SIGCHLD
      to only receive it when its unblocked in the
      scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
  o Added dont_track_primary, nopreempt,  
      preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
  o Extended VRRP framework to support floating
      priority.

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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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1.659 keyutils_GPLv2 1.5.8 :3.el7
1.659.1 Available under license:

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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# Please send patches to <config-patches@gnu.org>. Submit a context
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#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
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 */
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 *
 * When editing this module, try to keep it re-mergeable by Adam. Don't
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 *
 * TODO:
 * - Support IPv6 and PTR records.
 * - Replace all externally visible magic numbers with #defined constants.
 * - Write documentation for APIs of all external functions.
 */

/* Async DNS Library
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structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.iijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.iijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iijg.org.

The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsrc8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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FILE FORMAT WARS

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.676 libpwquality 1.2.3 :5.el7

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1.679 libsndfile 1.0.25 :10.el7

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its purpose remains meaningful.

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If such an object file uses only numerical parameters, data
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Gadi Oxman, August 1995

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#!/bin/sh

find . -type f ! -name \\~! -exec grep -q Begin-Header \{|\} \; -print \
| grep -v ^/build

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,

---

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

 - trivial database library - private includes
-
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/* */

/*! Note: This include file is only needed for using the */
/* publickey SUBSYSTEM which is not the same as publickey */
/* authentication. For authentication you only need libssh2.h */
/* */
/* For more information on the publickey subsystem, */
/* refer to IETF draft: secsh-publickey */
/* */

#ifndef LIBSSH2_PUBLICKEY_H
#define LIBSSH2_PUBLICKEY_H

#include "libssh2.h"

typedef struct _LIBSSH2_PUBLICKEY LIBSSH2_PUBLICKEY;

typedef struct _libssh2_publickey_attribute {
  const char *name;
  unsigned long name_len;
  const char *value;
  unsigned long value_len;
  char mandatory;
} libssh2_publickey_attribute;

typedef struct _libssh2_publickey_list {
  unsigned char *packet; /* For freeing */
  const unsigned char *name;
  unsigned long name_len;
  const unsigned char *blob;
  unsigned long blob_len;
  unsigned long num_attrs;
  libssh2_publickey_attribute *attrs; /* free me */
} libssh2_publickey_list;

#endif
/* Generally use the first macro here, but if both name and value are string literals, you can use _fast() to take advantage of preprocessing */
#define libssh2_publickey_attribute(name, value, mandatory) \
  { (name), strlen(name), (value), strlen(value), (mandatory) },
#define libssh2_publickey_attribute_fast(name, value, mandatory) \
  { (name), sizeof(name) - 1, (value), sizeof(value) - 1, (mandatory) },

#ifndef __cplusplus
extern "C" {
#endif
/* Publickey Subsystem */
LIBSSH2_API LIBSSH2_PUBLICKEY *libssh2_publickey_init(LIBSSH2_SESSION *session);

LIBSSH2_API int libssh2_publickey_add_ex(LIBSSH2_PUBLICKEY *pkey, 
  const unsigned char *name, 
  unsigned long name_len, 
  const unsigned char *blob, 
  unsigned long blob_len, char overwrite, 
  unsigned long num_attrs, 
  const libssh2_publickey_attribute attrs[]);
#define libssh2_publickey_add(pkey, name, blob, blob_len, overwrite, 
  num_attrs, attrs)                         
  libssh2_publickey_add_ex((pkey), (name), strlen(name), (blob), (blob_len), 
    (overwrite), (num_attrs), (attrs))

LIBSSH2_API int libssh2_publickey_remove_ex(LIBSSH2_PUBLICKEY *pkey, 
  const unsigned char *name, 
  unsigned long name_len, 
  const unsigned char *blob, 
  unsigned long blob_len); 
#define libssh2_publickey_remove(pkey, name, blob, blob_len) \
  libssh2_publickey_remove_ex((pkey), (name), strlen(name), (blob), (blob_len))

LIBSSH2_API int 
libssh2_publickey_list_fetch(LIBSSH2_PUBLICKEY *pkey, 
  unsigned long *num_keys, 
  libssh2_publickey_list **pkey_list);
LIBSSH2_API void libssh2_publickey_list_free(LIBSSH2_PUBLICKEY *pkey, 
  libssh2_publickey_list *pkey_list);

LIBSSH2_API int libssh2_publickey_shutdown(LIBSSH2_PUBLICKEY *pkey);

#ifdef __cplusplus
} /* extern "C" */
#endif
#endif /* ifndef: LIBSSH2_PUBLICKEY_H */

1.682 libthai 0.1.12 :3.el6

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Version 2.1, February 1999

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1.683 libtiff 3.9.4 :10.el6_5

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1.685 libXau 1.0.6 :4.el6

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1.689 libXext 1.3.2 :2.1.el6

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1.698 libXtst 1.2.2 :2.1.el6

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1.700 liftoff 2.2.0

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1.703 lm_sensors 3.1.1 :17.el6
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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.
* Jean Delvare
  New lib sensors 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.

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1.756 lodash.toPlainObject 3.0.0

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```
cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java
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 */

/*
 * @(#)IllegalWriteException.java 1.5 05/08/29
 *
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 */

package javax.mail;
/**
 * The exception thrown when a write is attempted on a read-only attribute
 * of any Messaging object.
 *
 * @author John Mani
 */

public class IllegalWriteException extends MessagingException {

    private static final long serialVersionUID = 3974370223328268013L;

    /**
     * Constructs a IllegalWriteException with no detail message.
     */
    public IllegalWriteException() {
        super();
    }

    /**
     * Constructs a IllegalWriteException with the specified detail message.
     * @param s the detail message
     */
    public IllegalWriteException(String s) {
        super(s);
    }
}

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/*
* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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/*
* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
UCSD
R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.800 mime4j 0.7.2

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import java.util.concurrent.RecursiveAction;

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 * A {@link ForkJoinTask} with a completion action performed when
 * triggered and there are no remaining pending actions.
 * CountedCompleters are in general more robust in the
 * presence of subtask stalls and blockage than are other forms of
 * ForkJoinTasks, but are less intuitive to program. Uses of
 * CountedCompleter are similar to those of other completion based
 * components (such as [@link java.nio.channels.CompletionHandler])
 * except that multiple <em>pending</em> completions may be necessary
 * to trigger the completion action [@link #onCompletion(CountedCompleter)],
 * not just one.
 * Unless initialized otherwise, the [@link plain #getPendingCount pending
 * count] starts at zero, but may be (atomically) changed using
 * methods [@link #setPendingCount], [@link #addToPendingCount], and
 * [@link #compareAndSetPendingCount]. Upon invocation of [@link
 * #tryComplete], if the pending action count is nonzero, it is
 * decremented; otherwise, the completion action is performed, and if
 * this completer itself has a completer, the process is continued
 * with its completer. As is the case with related synchronization
 * components such as [@link java.util.concurrent.Phaser Phaser] and
 * [@link java.util.concurrent.Semaphore Semaphore], these methods
 * affect only internal counts; they do not establish any further
 * internal bookkeeping. In particular, the identities of pending
 * tasks are not maintained. As illustrated below, you can create
 * subclasses that do record some or all pending tasks or their
 * results when needed. As illustrated below, utility methods
 * supporting customization of completion traversals are also
 * provided. However, because CountedCompleters provide only basic
 * synchronization mechanisms, it may be useful to create further
 * abstract subclasses that maintain linkages, fields, and additional
 * support methods appropriate for a set of related usages.
 *
 * A concrete CountedCompleter class must define method [@link
 * #compute], that should in most cases (as illustrated below), invoke
 * [@code tryComplete()] once before returning. The class may also
 * optionally override method [@link #onCompletion(CountedCompleter)]
 * to perform an action upon normal completion, and method
 * [@link #onExceptionalCompletion(Throw, CountedCompleter)] to
 * perform an action upon any exception.
CountedCompleters most often do not bear results, in which case
they are normally declared as `CountedCompleter<Void>`, and
will always return `null` as a result value. In other cases,
you should override method `getRawResult` to provide a
result from `join(), invoke()`, and related methods. In
general, this method should return the value of a field (or a
function of one or more fields) of the CountedCompleter object that
holds the result upon completion. Method `setRawResult` by
default plays no role in CountedCompleters. It is possible, but
rarely applicable, to override this method to maintain other
objects or fields holding result data.

A CountedCompleter that does not itself have a completer (i.e.,
one for which `getCompleter()` returns `null`) can be
used as a regular ForkJoinTask with this added functionality.
However, any completer that in turn has another completer serves
only as an internal helper for other computations, so its own task
status (as reported in methods such as `isDone()`) is
arbitrary; this status changes only upon explicit invocations of
`complete`, `cancel`, or upon
exceptional completion of method `compute`. Upon any
exceptional completion, the exception may be relayed to a task's
completer (and its completer, and so on), if one exists and it has
not otherwise already completed. Similarly, cancelling an internal
CountedCompleter has only a local effect on that completer, so is
not often useful.

Sample Usages.

Parallel recursive decomposition. CountedCompleters may
be arranged in trees similar to those often used with `RecursiveAction`
instances, although the constructions involved in setting
them up typically vary. Here, the completer of each task is its
parent in the computation tree. Even though they entail a bit more
bookkeeping, CountedCompleters may be better choices when applying
a possibly time-consuming operation (that cannot be further
subdivided) to each element of an array or collection; especially
when the operation takes a significantly different amount of time
to complete for some elements than others, either because of
intrinsic variation (for example I/O) or auxiliary effects such as
garbage collection. Because CountedCompleters provide their own
continuations, other threads need not block waiting to perform
them.

For example, here is an initial version of a class that uses
divide-by-two recursive decomposition to divide work into single
* pieces (leaf tasks). Even when work is split into individual calls,
  * tree-based techniques are usually preferable to directly forking
  * leaf tasks, because they reduce inter-thread communication and
  * improve load balancing. In the recursive case, the second of each
  * pair of subtasks to finish triggers completion of its parent
  * (because no result combination is performed, the default no-op
  * implementation of method `onCompletion` is not overridden).
  * A static utility method sets up the base task and invokes it
  * (here, implicitly using the `commonPool()`).

* `<pre>` `@code`
  * class MyOperation<E> { void apply(E e) { ... } }
  *
  * class ForEach<E> extends CountedCompleter<Void> {
  *
  *   public static <E> void forEach(E[] array, MyOperation<E> op) {
  *     new ForEach<E>(null, array, op, 0, array.length).invoke();
  *   }
  *
  *   final E[] array; final MyOperation<E> op; final int lo, hi;
  *   ForEach(CountedCompleter<?> p, E[] array, MyOperation<E> op, int lo, int hi) {
  *     super(p);
  *     this.array = array; this.op = op; this.lo = lo; this.hi = hi;
  *   }
  *
  *   public void compute() { // version 1
  *     if (hi - lo >= 2) {
  *       int mid = (lo + hi) >>> 1;
  *       setPendingCount(2); // must set pending count before fork
  *       new ForEach(this, array, op, mid, hi).fork(); // right child
  *       new ForEach(this, array, op, lo, mid).fork(); // left child
  *     }
  *     else if (hi > lo)
  *       op.apply(array[lo]);
  *     tryComplete();
  *   }
  * }<pre>`
  *
  * This design can be improved by noticing that in the recursive case,
  * the task has nothing to do after forking its right task, so can
  * directly invoke its left task before returning. (This is an analog
  * of tail recursion removal.) Also, because the task returns upon
  * executing its left task (rather than falling through to invoke
  * `tryComplete()`) the pending count is set to one:

* `<pre>` `@code`
  * class ForEach<E> ...
  * public void compute() { // version 2
if (hi - lo >= 2) {
    int mid = (lo + hi) >>> 1;
    setPendingCount(1); // only one pending
    new ForEach(this, array, op, mid, hi).fork(); // right child
    new ForEach(this, array, op, lo, mid).compute(); // direct invoke
}
else {
    if (hi > lo)
        op.apply(array[lo]);
    tryComplete();
}
}

As a further improvement, notice that the left task need not even exist. Instead of creating a new one, we can iterate using the original task, and add a pending count for each fork. Additionally, because no task in this tree implements an \{@link #onCompletion(CountedCompleter)\} method, \@code tryComplete()\} can be replaced with \@link #propagateCompletion\}.

class ForEach<E> {
  public void compute() { // version 3
    int l = lo,  h = hi;
    while (h - l >= 2) {
      int mid = (l + h) >>> 1;
      addToPendingCount(1);
      new ForEach(this, array, op, mid, h).fork(); // right child
      h = mid;
      if (h > l)
        op.apply(array[l]);
      propagateCompletion();
    }
  }
}

Additional improvements of such classes might entail precomputing pending counts so that they can be established in constructors, specializing classes for leaf steps, subdividing by say, four, instead of two per iteration, and using an adaptive threshold instead of always subdividing down to single elements.

Searching. A tree of CountedCompleters can search for a value or property in different parts of a data structure, and report a result in an \@link java.util.concurrent.atomic.AtomicReference\} as soon as one is found. The others can poll the result to avoid unnecessary work. (You could additionally \@linkplain #cancel.
* cancel} other tasks, but it is usually simpler and more efficient
* to just let them notice that the result is set and if so skip
* further processing.) Illustrating again with an array using full
* partitioning (again, in practice, leaf tasks will almost always
* process more than one element):
* 
* <pre> {@code
* class Searcher<E> extends CountedCompleter<E> {
*   final E[] array; final AtomicReference<E> result; final int lo, hi;
*   Searcher(CountedCompleter<?> p, E[] array, AtomicReference<E> result, int lo, int hi) {
*     super(p);
*     this.array = array; this.result = result; this.lo = lo; this.hi = hi;
*   }
*   public E getRawResult() { return result.get(); }
*   public void compute() { // similar to ForEach version 3
*     int l = lo, h = hi;
*     while (result.get() == null & & h >= l) {
*       if (h - l >= 2) {
*         int mid = (l + h) >>> 1;
*         addToPendingCount(1);
*         new Searcher(this, array, result, mid, h).fork();
*         h = mid;
*       }
*       else {
*         E x = array[l];
*         if (matches(x) & & result.compareAndSet(null, x))
*           quietlyCompleteRoot(); // root task is now joinable
*           break;
*         }
*       }
*     }
*     tryComplete(); // normally complete whether or not found
*   }
*   boolean matches(E e) { ... } // return true if found
*   public static &lt;E&gt; E search(E[] array) {
*     return new Searcher&lt;E&gt;(null, array, new AtomicReference&lt;E&gt;(), 0, array.length).invoke();
*   }
* }&lt;/pre>
* 
* In this example, as well as others in which tasks have no other
* effects except to compareAndSet a common result, the trailing
* unconditional invocation of {@code tryComplete} could be made
* conditional (if (result.get() == null) tryComplete();))
* because no further bookkeeping is required to manage completions
* once the root task completes.
* 
* &lt;p&gt;&lt;b&gt;Recording subtasks.&lt;/b&gt; CountedCompleter tasks that combine
* results of multiple subtasks usually need to access these results

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* in method {@link #onCompletion(CountedCompleter)}. As illustrated in the following
* class (that performs a simplified form of map-reduce where mappings
* and reductions are all of type {@code E}), one way to do this in
* divide and conquer designs is to have each subtask record its
* sibling, so that it can be accessed in method {@code onCompletion}.
* This technique applies to reductions in which the order of
* combining left and right results does not matter; ordered
* reductions require explicit left/right designations. Variants of
* other streamlinings seen in the above examples may also apply.
*
* <pre>{@code
* class MyMapper&lt;E&gt; { E apply(E v) {  ...  } }
* class MyReducer&lt;E&gt; { E apply(E x, E y) {  ...  } }
* class MapReducer&lt;E&gt; extends CountedCompleter&lt;E&gt; {
*   final E[] array; final MyMapper&lt;E&gt; mapper;
*   final MyReducer&lt;E&gt; reducer; final int lo, hi;
*   MapReducer&lt;E&gt; sibling;
*   E result;
*   MapReducer(CountedCompleter<? super E> p, E[] array, MyMapper&lt;E&gt; mapper,
*   MyReducer&lt;E&gt; reducer, int lo, int hi) {
*     super(p);
*     this.array = array; this.mapper = mapper;
*     this.reducer = reducer; this.lo = lo; this.hi = hi;
*   }
*   public void compute() {
*     if (hi - lo >= 2) {
*       int mid = (lo + hi) >>> 1;
*       MapReducer&lt;E&gt; left = new MapReducer(this, array, mapper, reducer, lo, mid);
*       MapReducer&lt;E&gt; right = new MapReducer(this, array, mapper, reducer, mid, hi);
*       left.sibling = right;
*       right.sibling = left;
*       setPendingCount(1); // only right is pending
*       right.fork();
*       left.compute();     // directly execute left
*     } else {
*       if (hi > lo)
*         result = mapper.apply(array[lo]);
*       tryComplete();
*     }
*   }
*   public void onCompletion(CountedCompleter<? super E> caller) {
*     if (caller != this) {
*       MapReducer&lt;E&gt; child = (MapReducer&lt;E&gt;)caller;
*       MapReducer&lt;E&gt; sib = child.sibling;
*       if (sib == null || sib.result == null)
*         result = child.result;
*     else
*       }
*   }
* }
"
Here, method {code onCompletion} takes a form common to many
completion designs that combine results. This callback-style method
is triggered once per task, in either of the two different contexts
in which the pending count is, or becomes, zero: (1) by a task
itself, if its pending count is zero upon invocation of {code
tryComplete}, or (2) by any of its subtasks when they complete and
decrement the pending count to zero. The {code caller} argument
distinguishes cases. Most often, when the caller is {code this},
no action is necessary. Otherwise the caller argument can be used
(usually via a cast) to supply a value (and/or links to other
values) to be combined. Assuming proper use of pending counts, the
actions inside {code onCompletion} occur (once) upon completion of
a task and its subtasks. No additional synchronization is required
within this method to ensure thread safety of accesses to fields of
this task or other completed tasks.

Completion Traversals. If using {code onCompletion} to
process completions is inapplicable or inconvenient, you can use
methods {link firstComplete} and {link nextComplete} to create
custom traversals. For example, to define a MapReducer that only
splits out right-hand tasks in the form of the third ForEach
example, the completions must cooperatively reduce along
unexhausted subtask links, which can be done as follows:

```java
class MapReducer<E> extends CountedCompleter<E> { // version 2
  final E[] array; final MyMapper<E> mapper;
  final MyReducer<E> reducer; final int lo, hi;
  MapReducer<E> forks, next; // record subtask forks in list
  E result;
  MapReducer(CountedCompleter<?> p, E[] array, MyMapper<E> mapper,
  MyReducer<E> reducer, int lo, int hi, MapReducer<E> next) {
    super(p);
    this.array = array; this.mapper = mapper;
    this.reducer = reducer; this.lo = lo; this.hi = hi;
    this.next = next;
  }
}
```
* public void compute() {
*   int l = lo, h = hi;
*   while (h - l >= 2) {
*     int mid = (l + h) >>> 1;
*     addToPendingCount(1);
*     (forks = new MapReducer(this, array, mapper, reducer, mid, h, forks)).fork();
*     h = mid;
*   }
*   if (h > l)
*     result = mapper.apply(array[l]);
*   // process completions by reducing along and advancing subtask links
*   for (CountedCompleter<? extends CountedCompleter> c = firstComplete(); c != null; c = c.nextComplete()) {
*     for (MapReducer t = (MapReducer)c, s = t.forks; s != null; s = t.forks = s.next)
*       t.result = reducer.apply(t.result, s.result);
*   }
*   }
*   public E getRawResult() { return result; }
* }
* }
* }

* public static <E> E mapReduce(E[] array, MyMapper<E> mapper, MyReducer<E> reducer) {
*   return new MapReducer<E>(null, array, mapper, reducer,
*                               0, array.length, null).invoke();
* }
*

* <p><b>Triggers.</b> Some CountedCompleters are themselves never
* forked, but instead serve as bits of plumbing in other designs;
* including those in which the completion of one or more async tasks
* triggers another async task. For example:
* 
* * <pre> [@code
*   class HeaderBuilder extends CountedCompleter<...> { ... }
*   class BodyBuilder extends CountedCompleter<...> { ... }
*   class PacketSender extends CountedCompleter<...> {
*     PacketSender(...) { super(null, 1); ... } // trigger on second completion
*     public void compute() { } // never called
*     public void onCompletion(CountedCompleter<?> caller) { sendPacket(); }
*   }
* </pre>
* 
* * @since 1.8
* * @author Doug Lea
* */

@SuppressWarnings("all")
public abstract class CountedCompleter<T extends ForkJoinTask<T> {
private static final long serialVersionUID = 5232453752276485070L;

/** This task's completer, or null if none */
final CountedCompleter<?> completer;
/** The number of pending tasks until completion */
volatile int pending;

/**
 * Creates a new CountedCompleter with the given completer
 * and initial pending count.
 *
 * @param completer this task's completer, or null if none
 * @param initialPendingCount the initial pending count
 */
protected CountedCompleter(CountedCompleter<?> completer,
    int initialPendingCount) {
    this.completer = completer;
    this.pending = initialPendingCount;
}

/**
 * Creates a new CountedCompleter with the given completer
 * and an initial pending count of zero.
 *
 * @param completer this task's completer, or null if none
 */
protected CountedCompleter(CountedCompleter<?> completer) {
    this.completer = completer;
}

/**
 * Creates a new CountedCompleter with no completer
 * and an initial pending count of zero.
 */
protected CountedCompleter() {
    this.completer = null;
}

/**
 * The main computation performed by this task.
 */
public abstract void compute();

/**
 * Performs an action when method tryComplete is invoked
 * and the pending count is zero, or when the unconditional
 * method complete is invoked. By default, this method
 * does nothing. You can distinguish cases by checking the
public void onCompletion(CountedCompleter<?> caller) {
}

/**
 * Performs an action when method {@link #completeExceptionally(Throwable)} is invoked or method {
 * compute} throws an exception, and this task has not already
 * otherwise completed normally. On entry to this method, this task
 * [ @link ForkJoinTask#isCompletedAbnormally}. The return value
 * of this method controls further propagation: If {
 * code true}
 * and this task has a completer that has not completed, then that
 * completer is also completed exceptionally, with the same
 * exception as this completer. The default implementation of
 * this method does nothing except return {
 * code true}.  
 * @param ex the exception
 * @param caller the task invoking this method (which may
 * be this task itself)
 * @return true if this exception should be propagated to this
 * task's completer, if one exists
 */
public boolean onExceptionalCompletion(Throwable ex, CountedCompleter<?> caller) {
    return true;
}

/**
 * Returns the completer established in this task's constructor,
 * or {
 * code null} if none.
 * @return the completer
 */
public final CountedCompleter<?> getCompleter() {
    return completer;
}

/**
 * Returns the current pending count.
 * @return the current pending count
 */
public final int getPendingCount() {
return pending;
}

/**
 * Sets the pending count to the given value.
 * @param count the count
 */
public final void setPendingCount(int count) {
    pending = count;
}

/**
 * Adds (atomically) the given value to the pending count.
 * @param delta the value to add
 */
public final void addToPendingCount(int delta) {
    int c;
    do {} while (!U.compareAndSwapInt(this, PENDING, c = pending, c + delta));
}

/**
 * Sets (atomically) the pending count to the given count only if
 * it currently holds the given expected value.
 * @param expected the expected value
 * @param count the new value
 * @return {@code true} if successful
 */
public final boolean compareAndSetPendingCount(int expected, int count) {
    return U.compareAndSwapInt(this, PENDING, expected, count);
}

/**
 * If the pending count is nonzero, (atomically) decrements it.
 * @return the initial (undecremented) pending count holding on entry
 * to this method
 */
public final int decrementPendingCountUnlessZero() {
    int c;
    do {} while ((c = pending) != 0 &&
                !U.compareAndSwapInt(this, PENDING, c, c - 1));
    return c;
}
* Returns the root of the current computation; i.e., this
* task if it has no completer, else its completer's root.
*
* @return the root of the current computation
*/
public final CountedCompleter<?> getRoot() {
    CountedCompleter<?> a = this, p;
    while ((p = a.completer) != null)
        a = p;
    return a;
}

/**
* If the pending count is nonzero, decrements the count;
* otherwise invokes [ @link #onCompletion(CountedCompleter) ]
* and then similarly tries to complete this task's completer,
* if one exists, else marks this task as complete.
* /
public final void tryComplete() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            a.onCompletion(s);
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
                return;
            }
        } else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
    else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
        return;
}

/**
* Equivalent to [ @link tryComplete ] but does not invoke [ @link
* #onCompletion(CountedCompleter) ] along the completion path:
* If the pending count is nonzero, decrements the count;
* otherwise, similarly tries to complete this task's completer, if
* one exists, else marks this task as complete. This method may be
* useful in cases where [ @code onCompletion ] should not, or need
* not, be invoked for each completer in a computation.
* /
public final void propagateCompletion() {
    CountedCompleter<?> a = this, s = a;
    for (int c;;) {
        if ((c = a.pending) == 0) {
            if ((a = (s = a).completer) == null) {
                s.quietlyComplete();
            }
        } else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
            return;
    }
return;
}
}
else if (U.compareAndSwapInt(a, PENDING, c, c - 1))
return;
}

/**
 * Regardless of pending count, invokes
 * {#onCompletion(CountedCompleter)}, marks this task as
 * complete and further triggers {#tryComplete} on this
 * task's completer, if one exists. The given rawResult is
 * used as an argument to {#setRawResult} before invoking
 * {#onCompletion(CountedCompleter)} or marking this task
 * as complete; its value is meaningful only for classes
 * overriding {code setRawResult}. This method does not modify
 * the pending count.
 *
 * <p>This method may be useful when forcing completion as soon as
 * any one (versus all) of several subtask results are obtained.
 * However, in the common (and recommended) case in which {code
 * setRawResult} is not overridden, this effect can be obtained
 * more simply using {code quietlyCompleteRoot();}.
 *
 * @param rawResult the raw result
 */
public void complete(T rawResult) {
    CountedCompleter<?> p;
    setRawResult(rawResult);
    onCompletion(this);
    quietlyComplete();
    if ((p = completer) != null)
        p.tryComplete();
}

/**
 * If this task's pending count is zero, returns this task;
 * otherwise decrements its pending count and returns {null}. This method is designed to be used with {link
 * #nextComplete} in completion traversal loops.
 *
 * @return this task, if pending count was zero, else {code null}
 */
public final CountedCompleter<? extends CountedCompleter> firstComplete() {
    for (int c;;) {
        if ((c = pending) == 0)
return this;
else if (U.compareAndSwapInt(this, PENDING, c, c - 1))
    return null;
}

/**
* If this task does not have a completer, invokes {@link ForkJoinTask#quietlyComplete} and returns {@code null}. Or, if
* the completer's pending count is non-zero, decrements that
* pending count and returns {@code null}. Otherwise, returns the
* completer. This method can be used as part of a completion
* traversal loop for homogeneous task hierarchies:
*<pre>{@code
* for (CountedCompleter<?> c = firstComplete();
*     c != null;
*     c = c.nextComplete()) {
*     // ... process c ...
* } }}</pre>
*<p>
* @return the completer, or {@code null} if none
*/
public final CountedCompleter<?> nextComplete() {
    CountedCompleter<?> p;
    if ((p = completer) != null)
        return p.firstComplete();
    else {
        quietlyComplete();
        return null;
    }
}

/**
* Equivalent to {@code getRoot().quietlyComplete()}. *
*/
public final void quietlyCompleteRoot() {
    for (CountedCompleter<?> a = this, p;;) {
        if ((p = a.completer) == null) {
            a.quietlyComplete();
            return;
        }
        a = p;
    }
}

/**
* Supports ForkJoinTask exception propagation.
*/
void internalPropagateException(Throwable ex) {
    CountedCompleter<?> a = this, s = a;
    while (a.onExceptionalCompletion(ex, s) &&
        (a = (s = a).completer) != null && a.status >= 0 &&
        a.recordExceptionalCompletion(ex) == EXCEPTIONAL) ;
}

/**
 * Implements execution conventions for CountedCompleters.
 */
protected final boolean exec() {
    compute();
    return false;
}

/**
 * Returns the result of the computation. By default
 * returns { @code null}, which is appropriate for { @code Void} 
 * actions, but in other cases should be overridden, almost
 * always to return a field or function of a field that
 * holds the result upon completion.
 * *
 * @return the result of the computation
 */
public T getRawResult() { return null; }

/**
 * A method that result-bearing CountedCompleters may optionally
 * use to help maintain result data. By default, does nothing.
 * Overrides are not recommended. However, if this method is
 * overridden to update existing objects or fields, then it must
 * in general be defined to be thread-safe.
 */
protected void setRawResult(T t) { }

// Unsafe mechanics
private static final sun.misc.Unsafe U;
private static final long PENDING;
static {
    try {
        U = getUnsafe();
        PENDING = U.objectFieldOffset
                    (CountedCompleter.class.getDeclaredField("pending"));
    } catch (Exception e) {
        throw new Error(e);
    }
}
/**
 * Replace with a simple call to Unsafe.getUnsafe when integrating
 * into a jdk.
 *
 * @return a sun.misc.Unsafe
 */

private static sun.misc.Unsafe getUnsafe() {
    try {
        return sun.misc.Unsafe.getUnsafe();
    } catch (SecurityException tryReflectionInstead) {
        try {
            return java.security.AccessController.doPrivileged
                (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
                    public sun.misc.Unsafe run() throws Exception {
                        Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
                        for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                            f.setAccessible(true);
                            Object x = f.get(null);
                            if (k.isInstance(x))
                                return k.cast(x);
                        }
                        throw new NoSuchFieldError("the Unsafe");
                    }
                });
        } catch (java.security.PrivilegedActionException e) {
            throw new RuntimeException("Could not initialize intrinsics",
                               e.getCause());
        }
    }
    return java.security.AccessController.doPrivileged
        (new java.security.PrivilegedExceptionAction<sun.misc.Unsafe>() {
            public sun.misc.Unsafe run() throws Exception {
                Class<sun.misc.Unsafe> k = sun.misc.Unsafe.class;
                for (java.lang.reflect.Field f : k.getDeclaredFields()) {
                    f.setAccessible(true);
                    Object x = f.get(null);
                    if (k.isInstance(x))
                        return k.cast(x);
                }
                throw new NoSuchFieldError("the Unsafe");
            }
        });
    }
    catch (java.security.PrivilegedActionException e) {
        throw new RuntimeException("Could not initialize intrinsics",
                               e.getCause());
    }
}

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 */
package io.netty.util.concurrent;

import java.util.concurrent.TimeUnit;

/**
 * A skeletal {@link Future} implementation which represents a {@link Future} which has been completed already.
 */
public abstract class CompleteFuture<V> extends AbstractFuture<V> {
    private final EventExecutor executor;

    /**
     * Creates a new instance.
     *
     * @param executor the {@link EventExecutor} associated with this future
     */
    protected CompleteFuture(EventExecutor executor) {
        this.executor = executor;
    }

    /**
     * Return the {@link EventExecutor} which is used by this {@link CompleteFuture}.
     */
    protected EventExecutor executor() {
        return executor;
    }

    @Override
    public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
        if (listener == null) {
            throw new NullPointerException("listener");
        }
        DefaultPromise.notifyListener(executor(), this, listener);
        return this;
    }

    @Override
    public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
        if (listeners == null) {
            throw new NullPointerException("listeners");
        }
        for (GenericFutureListener<? extends Future<? super V>> l: listeners) {
            if (l == null) {
                break;
            }
            DefaultPromise.notifyListener(executor(), this, l);
        }
        return this;
    }

    @Override
    public Future<V> addListener(GenericFutureListener<? extends Future<? super V>> listener) {
        if (listener == null) {
            throw new NullPointerException("listener");
        }
        DefaultPromise.notifyListener(executor(), this, listener);
        return this;
    }

    @Override
    public Future<V> addListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
        if (listeners == null) {
            throw new NullPointerException("listeners");
        }
        for (GenericFutureListener<? extends Future<? super V>> l: listeners) {
            if (l == null) {
                break;
            }
            DefaultPromise.notifyListener(executor(), this, l);
        }
        return this;
    }
}
@Override
class Future implements GenericFutureListener {

public Future removeListener(GenericFutureListener<? extends Future<? super V>> listener) {
  // NOOP
  return this;
}

public Future removeListeners(GenericFutureListener<? extends Future<? super V>>... listeners) {
  // NOOP
  return this;
}

@Override
public Future<V> await() throws InterruptedException {
  if (Thread.interrupted()) {
    throw new InterruptedException();
  }
  return this;
}

@Override
public boolean await(long timeout, TimeUnit unit) throws InterruptedException {
  if (Thread.interrupted()) {
    throw new InterruptedException();
  }
  return true;
}

@Override
public Future<V> sync() throws InterruptedException {
  return this;
}

@Override
public Future<V> syncUninterruptibly() {
  return this;
}

@Override
public boolean await(long timeoutMillis) throws InterruptedException {
  if (Thread.interrupted()) {
    throw new InterruptedException();
  }
  return true;
}
@Override
public Future<V> awaitUninterruptibly() {
    return this;
}

@Override
public boolean awaitUninterruptibly(long timeout, TimeUnit unit) {
    return true;
}

@Override
public boolean awaitUninterruptibly(long timeoutMillis) {
    return true;
}

@Override
public boolean isDone() {
    return true;
}

@Override
public boolean isCancellable() {
    return false;
}

@Override
public boolean isCancelled() {
    return false;
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return false;
}

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package io.netty.util;

/**
 * An {@link IllegalStateException} which is raised when a user attempts to access a {@link ReferenceCounted}
 * whose reference count has been decreased to 0 (and consequently freed).
 */
public class IllegalReferenceCountException extends IllegalStateException {

    private static final long serialVersionUID = -2507492394288153468L;

    public IllegalReferenceCountException() {
    }

    public IllegalReferenceCountException(int refCnt) {
        this("refCnt: " + refCnt);
    }

    public IllegalReferenceCountException(int refCnt, int increment) {
        this("refCnt: " + refCnt + ", " + (increment > 0? "increment: " + increment : "decrement: " + -increment));
    }

    public IllegalReferenceCountException(String message) {
        super(message);
    }

    public IllegalReferenceCountException(String message, Throwable cause) {
        super(message, cause);
    }

    public IllegalReferenceCountException(Thrower cause) {
        super(cause);
    }
}
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under the License.

package io.netty.channel;

import io.netty.util.ReferenceCountUtil;
import io.netty.util.internal.TypeParameterMatcher;

/**
 * [@link ChannelInboundHandlerAdapter] which allows to explicit only handle a specific type of messages.
 * For example here is an implementation which only handle [@link String] messages.
 *
 * <pre>
 *     public class StringHandler extends 
 *             @link SimpleChannelInboundHandler}[@link String]&gt; { 
 *
 *     @code @Override
 *     protected void channelRead0([@link ChannelHandlerContext} ctx, [@link String} message)
 *         throws @link Exception} { 
 *         System.out.println(message);
 *     }
 * }
 * </pre>
 *
 * Be aware that depending of the constructor parameters it will release all handled messages.
 *
 * Forward compatibility notice
 *
 * Please keep in mind that [@link channelRead0(ChannelHandlerContext, Object}) will be renamed to
 * @code messageReceived(ChannelHandlerContext, I}) in 5.0.
 *
 */

public abstract class SimpleChannelInboundHandler&lt;I&gt; extends ChannelInboundHandlerAdapter {

    private final TypeParameterMatcher matcher;
    private final boolean autoRelease;

    /**
     * @see {@link SimpleChannelInboundHandler(boolean)} with @code true as boolean parameter.
     */
    protected SimpleChannelInboundHandler() {
        this(true);
    }

    /**
     * Create a new instance which will try to detect the types to match out of the type parameter of the class.
     *
protected SimpleChannelInboundHandler(boolean autoRelease) {
    matcher = TypeParameterMatcher.find(this, SimpleChannelInboundHandler.class, "I");
    this.autoRelease = autoRelease;
}

protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType) {
    this(inboundMessageType, true);
}

protected SimpleChannelInboundHandler(Class<? extends I> inboundMessageType, boolean autoRelease) {
    matcher = TypeParameterMatcher.get(inboundMessageType);
    this.autoRelease = autoRelease;
}

public boolean acceptInboundMessage(Object msg) throws Exception {
    return matcher.match(msg);
}

@Override
public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {
    boolean release = true;
    try {
        if (acceptInboundMessage(msg)) {
            @SuppressWarnings("unchecked")
            I imsg = (I) msg;
            channelRead0(ctx, imsg);
        } else {
            release = false;
            ctx.fireChannelRead(msg);
        }
    } finally {
    
    }
if (autoRelease && release) {
    ReferenceCountUtil.release(msg);
}
}
}

/**
 * Please keep in mind that this method will be renamed to
 * {@code messageReceived(ChannelHandlerContext, I)} in 5.0.</strong>
 *
 * Is called for each message of type {@link I}.
 *
 * @param ctx the {@link ChannelHandlerContext} which this {@link SimpleChannelInboundHandler
 *          belongs to
 * @param msg the message to handle
 * @throws Exception is thrown if an error occurred
 */
protected abstract void channelRead0(ChannelHandlerContext ctx, I msg) throws Exception;
}

package io.netty.channel;

import io.netty.util.concurrent.CompleteFuture;
import io.netty.util.concurrent.EventExecutor;
import io.netty.util.concurrent.Future;
import io.netty.util.concurrent.GenericFutureListener;

abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {

    private final Channel channel;

    /**
     * A skeletal {@link ChannelFuture} implementation which represents a
     * {@link ChannelFuture} which has been completed already.
     */
    abstract class CompleteChannelFuture extends CompleteFuture<Void> implements ChannelFuture {

        private final Channel channel;

        }
/**
 * Creates a new instance.
 *
 * @param channel the [link Channel] associated with this future
 */
protected CompleteChannelFuture(Channel channel, EventExecutor executor) {
    super(executor);
    if (channel == null) {
        throw new NullPointerException("channel");
    }
    this.channel = channel;
}

@Override
protected EventExecutor executor() {
    EventExecutor e = super.executor();
    if (e == null) {
        return channel().eventLoop();
    } else {
        return e;
    }
}

@Override
public ChannelFuture addListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.addListener(listener);
    return this;
}

@Override
public ChannelFuture addListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.addListeners(listeners);
    return this;
}

@Override
public ChannelFuture removeListener(GenericFutureListener<? extends Future<? super Void>> listener) {
    super.removeListener(listener);
    return this;
}

@Override
public ChannelFuture removeListeners(GenericFutureListener<? extends Future<? super Void>>... listeners) {
    super.removeListeners(listeners);
    return this;
}
@Override
public ChannelFuture syncUninterruptibly() {
    return this;
}

@Override
public ChannelFuture sync() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture await() throws InterruptedException {
    return this;
}

@Override
public ChannelFuture awaitUninterruptibly() {
    return this;
}

@Override
public Channel channel() {
    return channel;
}

@Override
public Void getNow() {
    return null;
}
}

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 */
package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use {@link ByteBuf#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {
    private final ByteBuf buffer;

    public DuplicatedByteBuf(ByteBuf buffer) {
        super(buffer.maxCapacity());

        if (buffer instanceof DuplicatedByteBuf) {
            this.buffer = ((DuplicatedByteBuf) buffer).buffer;
        } else {
            this.buffer = buffer;
        }

        setIndex(buffer.readerIndex(), buffer.writerIndex());
    }

    @Override
    public ByteBuf unwrap() {
        return buffer;
    }

    @Override
    public ByteBufAllocator alloc() {
        return buffer.alloc();
    }

    @Override
    public ByteOrder order() {
        return buffer.order();
    }

    @Override
    public boolean isDirect() {
        return buffer.isDirect();
    }
}
@Override
public int capacity() {
    return buffer.capacity();
}

@Override
public ByteBuf capacity(int newCapacity) {
    buffer.capacity(newCapacity);
    return this;
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}
@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}

@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}

@Override
public ByteBuf setShort(int index, int value) {
    _setShort(index, value);
    return this;
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}

@Override
public ByteBuf setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
public ByteBuf setInt(int index, int value) {
    _setInt(index, value);
    return this;
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index, value);
}

@Override
public ByteBuf setLong(int index, long value) {
    _setLong(index, value);
    return this;
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    buffer.getBytes(index, out, length);
}

throws IOException {
    buffer.getBytes(index, out, length);
return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}
/*
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*/
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which exposes its parent's sub-region only. It is
 * recommended to use {@link ByteBuf#slice()} and
 * {@link ByteBuf#slice(int, int)} instead of calling the constructor
 * explicitly.
 */
public class SlicedByteBuf extends AbstractDerivedByteBuf {

  private final ByteBuf buffer;
  private final int adjustment;
  private final int length;

  public SlicedByteBuf(ByteBuf buffer, int index, int length) {
    super(length);
    if (index < 0 || index > buffer.capacity() - length) {
      throw new IndexOutOfBoundsException(buffer.toString() + ".slice(" + index + ", " + length + ")");
    }
    if (buffer instanceof SlicedByteBuf) {
      this.buffer = ((SlicedByteBuf) buffer).buffer;
      adjustment = ((SlicedByteBuf) buffer).adjustment + index;
    } else if (buffer instanceof DuplicatedByteBuf) {
      this.buffer = buffer.unwrap();
      adjustment = index;
    }
  }
}
} else {
    this.buffer = buffer;
    adjustment = index;
}
this.length = length;
writerIndex(length);
}

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}
@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);
    duplicate.setIndex(readerIndex(), writerIndex());
    return duplicate;
}
@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);
}

@Override
protected void _setMedium(int index, int value) {

}
buffer.setMedium(index + adjustment, value);
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer nioBuffer(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    checkIndex(index, length);
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByte(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
return ret - adjustment;
} else {
    return -1;
}
}*/

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 */

package io.netty.handler.codec.marshalling;

import org.jboss.marshalling.ByteInput;
import java.io.IOException;

/**
 * {@link ByteInput} implementation which wraps another {@link ByteInput} and throws a {@link
 * TooBigObjectException} if the read limit was reached.
 */
class LimitingByteInput implements ByteInput {

    // Use a static instance here to remove the overhead of fillStacktrace
    private static final TooBigObjectException EXCEPTION = new TooBigObjectException();

    private final ByteInput input;
    private final long limit;
    private long read;

    public LimitingByteInput(ByteInput input, long limit) {
        if (limit <= 0) {
            throw new IllegalArgumentException("The limit MUST be > 0");
        }
        this.input = input;
        this.limit = limit;
    }

    @Override
    public int read(byte[] buffer, int offset, int limit) throws IOException {
        if (limit <= read) {
            return read - offset;
        }
        read += limit;
        if (read > limit) {
            throw EXCEPTION;
        }
        return limit;
    }

    @Override
    public int read(byte[] buffer) throws IOException {
        return read(buffer, 0, buffer.length);
    }

    @Override
    public void skipBytes(long amount) throws IOException {
        read += amount;
    }

    @Override
    public int available() throws IOException {
        return limit - read;
    }

    @Override
    public long remaining() throws IOException {
        return limit - read;
    }

    @Override
    public int size() throws IOException {
        return limit;
    }

    @Override
    public void close() throws IOException {
        input.close();
    }
}

/**
 * @link ByteInput} implementation which wraps another [ @link ByteInput} and throws a [ @link
 * TooBigObjectException]}
 * if the read limit was reached.
 */

```java
@Override
public void close() throws IOException {
    // Nothing to do
}

@Override
public int available() throws IOException {
    return readable(input.available());
}

@Override
public int read() throws IOException {
    int readable = readable(1);
    if (readable > 0) {
        int b = input.read();
        read++;
        return b;
    } else {
        throw EXCEPTION;
    }
}

@Override
public int read(byte[] array) throws IOException {
    return read(array, 0, array.length);
}

@Override
public int read(byte[] array, int offset, int length) throws IOException {
    int readable = readable(length);
    if (readable > 0) {
        int i = input.read(array, offset, readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}

@Override
public long skip(long bytes) throws IOException {
    int readable = readable((int) bytes);
    if (readable > 0) {
        long i = input.skip(readable);
        read += i;
        return i;
    } else {
        throw EXCEPTION;
    }
}
```

throw EXCEPTION;
}
}

private int readable(int length) {
    return (int) Math.min(length, limit - read);
}

/**
 * Exception that will get thrown if the { @link Object} is to big to unmarshall
 *
 */
static final class TooBigObjectException extends IOException {
    private static final long serialVersionUID = 1L;
}

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented { @link SctpMessage}s, so
 * only <strong>complete</strong> { @link SctpMessage}s will be forwarded to the next
 */

/**
 * @link ChannelInboundHandler
 */

public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }

        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
            } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            SctpMessage assembledMsg = new SctpMessage(
                protocolIdentifier,
                streamIdentifier,
                Unpooled.wrappedBuffer(frag, byteBuf));
            out.add(assembledMsg);
        } else {
            //first incomplete message
            fragments.put(streamIdentifier, byteBuf);
        }
    byteBuf.retain();
    }
}

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 */
package io.netty.handler.codec;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

/**
 * A set of commonly used delimiters for {@link DelimiterBasedFrameDecoder}.
 */
public final class Delimiters {

    /**
     * Returns a {@code NUL (0x00)} delimiter, which could be used for
     * Flash XML socket or any similar protocols.
     */
    public static ByteBuf[] nulDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { 0 })
        };
    }

    /**
     * Returns {@code CR ('\r')} and {@code LF ('\n')} delimiters, which could
     * be used for text-based line protocols.
     */
    public static ByteBuf[] lineDelimiter() {
        return new ByteBuf[] {
            Unpooled.wrappedBuffer(new byte[] { '', '
' }),
            Unpooled.wrappedBuffer(new byte[] { '
' })
        };
    }

    private Delimiters() {
        // Unused
    }

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    */
package io.netty.handler.codec;
import io.netty.buffer.ByteBuf;
import io.netty.channel.ChannelHandlerContext;
import java.util.List;

/**
 * A decoder that splits the received {@link ByteBuf}s by one or more
 * delimiters. It is particularly useful for decoding the frames which ends
 * with a delimiter such as {@link Delimiters#nulDelimiter() NUL} or
 * {@linkplain Delimiters#lineDelimiter() newline characters}.
 */

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 */

import java.util.List;

/**
 * Predefined delimiters
 */

/**
 * Specifying more than one delimiter
 */

/**
 * DelimiterBasedFrameDecoder allows you to specify more than one
 * delimiter. If more than one delimiter is found in the buffer, it chooses
 * the delimiter which produces the shortest frame. For example, if you have
 * the following data in the buffer:
 */

/*
 * +--------------+
 * | ABC
DEF\n |  
 * +--------------+
 */

/*
 * a \{ DelimiterBasedFrameDecoder\}({ Delimiters#lineDelimiter() Delimiters.lineDelimiter()})
 * will choose \'n\' as the first delimiter and produce two frames:
 */

/*
 * +--+--+
 * | ABC | DEF |
 * +--+--+
 */

/*
 * rather than incorrectly choosing \'r\' as the first delimiter:
 */

/*
 * +--+--+
 * | ABC\nDEF |
 * +--+--+
 */
public class DelimiterBasedFrameDecoder extends ByteToMessageDecoder {

    private final ByteBuf[] delimiters;
    private final int maxFrameLength;
    private final boolean stripDelimiter;
    private final boolean failFast;
    private boolean discardingTooLongFrame;
    private int tooLongFrameLength;
    /** Set only when decoding with "\n" and "\r\n" as the delimiter. */
    private final LineBasedFrameDecoder lineBasedDecoder;

    /**
     * Creates a new instance.
     *
     * @param maxFrameLength  the maximum length of the decoded frame.
     *                        A { @link TooLongFrameException} is thrown if
     *                        the length of the frame exceeds this value.
     * @param stripDelimiter  whether the decoded frame should strip out the
     *                        delimiter or not
     * @param delimiter  the delimiter
     */
    public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf delimiter) {
        this(maxFrameLength, true, delimiter);
    }

    public DelimiterBasedFrameDecoder(int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
        this(maxFrameLength, stripDelimiter, true, delimiter);
    }

    public DelimiterBasedFrameDecoder(
            int maxFrameLength, boolean stripDelimiter, ByteBuf delimiter) {
        this(maxFrameLength, stripDelimiter, true, delimiter);
    }
}

/*
 */
* @param failFast  If <tt>true</tt>, a [@link TooLongFrameException] is
*     thrown as soon as the decoder notices the length of the
*     frame will exceed <tt>maxFrameLength</tt> regardless of
*     whether the entire frame has been read.
*     If <tt>false</tt>, a [@link TooLongFrameException] is
*     thrown after the entire frame that exceeds
*     <tt>maxFrameLength</tt> has been read.
* @param delimiter  the delimiter
* */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast,
    ByteBuf delimiter) {
    this(maxFrameLength, stripDelimiter, failFast, new ByteBuf[]{
        delimiter.slice(delimiter.readerIndex(), delimiter.readableBytes())});
}

/**
* Creates a new instance.
* @param maxFrameLength  the maximum length of the decoded frame.
*                        A [@link TooLongFrameException] is thrown if
*                        the length of the frame exceeds this value.
* @param delimiters  the delimiters
* */
public DelimiterBasedFrameDecoder(int maxFrameLength, ByteBuf... delimiters) {
    this(maxFrameLength, true, delimiters);
}

/**
* Creates a new instance.
* @param maxFrameLength  the maximum length of the decoded frame.
*                        A [@link TooLongFrameException] is thrown if
*                        the length of the frame exceeds this value.
* @param stripDelimiter  whether the decoded frame should strip out the
*                        delimiter or not
* @param delimiters  the delimiters
* */
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, ByteBuf... delimiters) {
    this(maxFrameLength, stripDelimiter, true, delimiters);
}

/**
* Creates a new instance.
* @param maxFrameLength  the maximum length of the decoded frame.
*                        A [@link TooLongFrameException] is thrown if
public DelimiterBasedFrameDecoder(
    int maxFrameLength, boolean stripDelimiter, boolean failFast, ByteBuf... delimiters) {
    validateMaxFrameLength(maxFrameLength);
    if (delimiters == null) {
        throw new NullPointerException("delimiters");
    }
    if (delimiters.length == 0) {  
        throw new IllegalArgumentException("empty delimiters");
    }
    if (isLineBased(delimiters) && !isSubclass()) {
        lineBasedDecoder = new LineBasedFrameDecoder(maxFrameLength, stripDelimiter, failFast);
        this.delimiters = null;
    } else {
        this.delimiters = new ByteBuf[delimiters.length];
        for (int i = 0; i < delimiters.length; i++) {
            ByteBuf d = delimiters[i];
            validateDelimiter(d);
            this.delimiters[i] = d.slice(d.readerIndex(), d.readableBytes());
        }
        lineBasedDecoder = null;
    }
    this.maxFrameLength = maxFrameLength;
    this.stripDelimiter = stripDelimiter;
    this.failFast = failFast;
}
b = delimiters[0];
}
return a.capacity() == 2 && b.capacity() == 1
  && a.getByte(0) == '\r' && a.getByte(1) == '\n'
  && b.getByte(0) == '\n';
}

/**
 * Return [code true] if the current instance is a subclass of DelimiterBasedFrameDecoder
 */
private boolean isSubclass() {
    return getClass() != DelimiterBasedFrameDecoder.class;
}

@Override
protected final void decode(ChannelHandlerContext ctx, ByteBuf in, List<Object> out) throws Exception {
    Object decoded = decode(ctx, in);
    if (decoded != null) {
        out.add(decoded);
    }
}

/**
 * Create a frame out of the [link ByteBuf] and return it.
 *
 * @param   ctx             the [link ChannelHandlerContext] which this [link ByteToMessageDecoder]
 * belongs to
 * @param   buffer          the [link ByteBuf] from which to read data
 * @return  frame           the [link ByteBuf] which represent the frame or [code null] if no frame could
 *                          be created.
 */
protected Object decode(ChannelHandlerContext ctx, ByteBuf buffer) throws Exception {
    if (lineBasedDecoder != null) {
        return lineBasedDecoder.decode(ctx, buffer);
    }
    // Try all delimiters and choose the delimiter which yields the shortest frame.
    int minFrameLength = Integer.MAX_VALUE;
    ByteBuf minDelim = null;
    for (ByteBuf delim: delimiters) {
        int frameLength = indexOf(buffer, delim);
        if (frameLength >= 0 && frameLength < minFrameLength) {
            minFrameLength = frameLength;
            minDelim = delim;
        }
    }
    if (minDelim != null) {
        int minDelimLength = minDelim.capacity();
    }
}
ByteBuf frame;

if (discardingTooLongFrame) {
    // We've just finished discarding a very large frame.
    // Go back to the initial state.
    discardingTooLongFrame = false;
    buffer.skipBytes(minFrameLength + minDelimLength);

    int tooLongFrameLength = this.tooLongFrameLength;
    this.tooLongFrameLength = 0;
    if (!failFast) {
        fail(ctx, tooLongFrameLength);
    }
    return null;
}

if (minFrameLength > maxFrameLength) {
    // Discard read frame.
    buffer.skipBytes(minFrameLength + minDelimLength);
    fail(ctx, minFrameLength);
    return null;
}

if (stripDelimiter) {
    frame = buffer.readBytes(minFrameLength);
    buffer.skipBytes(minDelimLength);
} else {
    frame = buffer.readBytes(minFrameLength + minDelimLength);
}

return frame;
} else {
    if (!discardingTooLongFrame) {
        if (buffer.readableBytes() > maxFrameLength) {
            // Discard the content of the buffer until a delimiter is found.
            tooLongFrameLength = buffer.readableBytes();
            buffer.skipBytes(buffer.readableBytes());
            discardingTooLongFrame = true;
            if (failFast) {
                fail(ctx, tooLongFrameLength);
            }
        }
    }
    else {
        // Still discarding the buffer since a delimiter is not found.
        tooLongFrameLength += buffer.readableBytes();
        buffer.skipBytes(buffer.readableBytes());
    }
    return null;
}
private void fail(ChannelHandlerContext ctx, long frameLength) {
    if (frameLength > 0) {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength + 
                ": " + frameLength + " - discarded"));
    } else {
        ctx.fireExceptionCaught(
            new TooLongFrameException(
                "frame length exceeds " + maxFrameLength + 
                " - discarding"));
    }
}

/**
 * Returns the number of bytes between the readerIndex of the haystack and
 * the first needle found in the haystack. -1 is returned if no needle is
 * found in the haystack.
 */
private static int indexOf(ByteBuf haystack, ByteBuf needle) {
    for (int i = haystack.readerIndex(); i < haystack.writerIndex(); i++) {
        int haystackIndex = i;
        int needleIndex;
        for (needleIndex = 0; needleIndex < needle.capacity(); needleIndex++) {
            if (haystack.getByte(haystackIndex) != needle.getByte(needleIndex)) {
                break;
            } else {
                haystackIndex++;
                if (haystackIndex == haystack.writerIndex() &&
                    needleIndex != needle.capacity() - 1) {
                    return -1;
                }
            }
        }
    }
    if (needleIndex == needle.capacity()) {
        // Found the needle from the haystack!
        return i - haystack.readerIndex();
    }
    return -1;
}

private static void validateDelimiter(ByteBuf delimiter) {
    if (delimiter == null) {
}
throw new NullPointerException("delimiter");
}
if (!delimiter.isReadable()) {
    throw new IllegalArgumentException("empty delimiter");
}

private static void validateMaxFrameLength(int maxFrameLength) {
    if (maxFrameLength <= 0) {
        throw new IllegalArgumentException(
            "maxFrameLength must be a positive integer: " +
            maxFrameLength);
    }
}

package io.netty.handler.ssl;

/**
 * Event that is fired once the SSL handshake is complete, which may be because it was successful or there
 * was an error.
 */
public final class SslHandshakeCompletionEvent {

    public static final SslHandshakeCompletionEvent SUCCESS = new SslHandshakeCompletionEvent();

    private final Throwable cause;

    /**
     * Creates a new event that indicates a successful handshake.
     */
    private SslHandshakeCompletionEvent() {
        cause = null;
    }
public SslHandshakeCompletionEvent(Throwable cause) {
    if (cause == null) {
        throw new NullPointerException("cause");
    }
    this.cause = cause;
}

/**
 * Return @code true if the handshake was successful
 */
public boolean isSuccess() {
    return cause == null;
}

/**
 * Return the @link Throwable if @link isSuccess() returns @code false
 * and so the handshake failed.
 */
public Throwable cause() {
    return cause;
}

1.828 ng-annotate 0.15.4
1.828.1 Available under license :

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1.831 node.extend 1.1.5

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1.832 nopt 3.0.6

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1.833 normalize-package-data 2.3.5
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1.834 normalize-path 2.0.1
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56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.848 object.omit 2.0.0

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1.849 Objenesis 1.2.0

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1.874 ordered-read-streams 0.3.0

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1.875 org.json-chargebee 1.0

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1.876 os-homedir 1.0.1

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1.877 os-locale 1.4.0

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1.878 osgi-resource-locator 1.0.1

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1.882 p6spy 2.1.4

1.883 pam 1.1.1 :13.el6
1.883.1 Available under license :

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```
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```

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```
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# 1.885 pango 1.28.1 :10.el6

## 1.885.1 Available under license:

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Version 2, June 1991

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

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1.903 pause-stream 0.0.11

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1.904 pax 3.4 :10.1.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.911 php 5.3.3 :27.el6_5

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# vim600: encoding=UTF-8

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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

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1.918 Play-framework-2.3.8 2.3.8

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1.919 play_twirl-api_2.11 1.0.2

1.920 policycoreutils 2.0.83 :19.30.el6

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1.932 proxy-addr 1.0.10

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1.933 proxy-middleware 0.5.1

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1.934 Pull API for parsing MIME messages - MIMEpull 1.6

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1.935 pulseaudio 0.9.21 :14.el6_3

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Hence you should treat the client library ('libpulse') of PulseAudio as being LGPL licensed and the server part ('libpulsecore') as being GPL licensed. Since the PulseAudio daemon and the modules link to 'libpulsecore' they are of course also GPL licensed.

-- Lennart Poettering, April 20th, 2006.

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1.938 pyrad 2.0 :May 15, 2011

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1.939 python 2.6.6 :52.el6

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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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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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
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1.943 python-configobj 4.6.0 :3.el6
# setup.py
# Install script for ConfigObj
# Copyright (C) 2005-2009 Michael Foord, Mark Andrews, Nicola Larosa
# E-mail: fuzzyman AT voidspace DOT org DOT uk
# mark AT la-la DOT com
# nico AT tekNico DOT net

# This software is licensed under the terms of the BSD license.
# http://www.voidspace.org.uk/python/license.shtml
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E-mail : fuzzyman AT voidspace DOT org DOT uk

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SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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/stmnts" 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
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

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.

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
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, 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 markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
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)

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copyright holders as I can
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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
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>
Hi Mark,

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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.

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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 (though that would be nice).

--amk

(www.amk.ca)

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royalty-free, non-exclusive license
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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

--
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
From dlitz@dlitz.net Sat Feb 28 23:24:14 -0500
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
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)

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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. 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,
> 
> 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
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha25=
I don't really check this email address all that often. I'd be fine with the public domain license for PyCrypto. Please direct any further correspondence to jeethu@jeethurao.com. On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger wrote:

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/ following the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. The text in the current LICENSE file says "distribute and use; 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). 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.
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
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/.

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.
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.
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on the point of whether distributing modified versions is allowed. (It
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or implied. Use at your own risk or not at all.
===================================================================

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--amk (www.amk.ca)

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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
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=

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

Open Source Used In Network Function Virtualization Infrastructure System Release 3.9.1
3745
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/ecG+JdZwNvPJRTfsa6rhY6+MHLDHf6agk
evkJnSJQAcVHIzVeR5IXgvDUMakZjU4SOV7MqkhSA9llet7PaD9VSYgn3ra5
gElw2DQDoOy5GExXMm74gqrb1PCCbCRmpaYNo+DZhwhHeFBJbwDRA3wltOrH7
SK4w9VBJtY=3D
=3DQduY
-----END PGP SIGNATURE-----
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

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFAdkz01gACgkQQQDkKvyJ6cOLvQCFqMYYuVODvIlyLg0hgCl9LAbQSH8AoLgaz1liy7ZYDC+/Cy8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1; protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
   id=19E11FE8B3CFF273ED174A24G2SCEC1339C25CF7 (only for key signing);
   preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
   id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
   preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78
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".)

```
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```

--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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```
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

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQH8BG4d+eAS0XPPQCfcyQ2DdAKKg9N7Z+jeSFD5EZ
yloAn33a3ZjkeyyJaTbzEqImoEw8JpGf
=ABE
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
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 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net [69.17.117.71]
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
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
Hi Paul,

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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?

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Regards,
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)
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  DomainKey-Signature: a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:to
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03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324c6b540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable

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 pu=
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
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> nse
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> r
> any purpose whatsoever. =C2=A0No rights are reserved.

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

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
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<dltiz@dltiz.net> wrote:
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>>
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>> ==================================================

AIM: z3penguin
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
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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> 
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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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.

<table>
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<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
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A. HISTORY OF THE SOFTWARE

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</thead>
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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

---

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<td>PSF</td>
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</tr>
</tbody>
</table>

Footnotes:

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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])
 by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
 for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Open Source Used In Network Function Virtualization Infrastructure System Release 3.9.1
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POINT OF CONTACT: Dwayne C. Litzenberger
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PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

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1.945 python-dateutil 1.4.1 :6.el6

1.945.1 Available under license:

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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1.946 python-dmidecode 3.10.13 :1.el6

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### 1.951 python-iniparse 0.3.1 :2.1.el6

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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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Open Source Used In Network Function Virtualization Infrastructure System Release 3.9.1

3797
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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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1.958 python-lxml_PSFv2.x 3.2.1 :4.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 (see http://www.digicoool.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. Digital Creations 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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1.960 python-novaclient 2.11.1

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That's all there is to it!

1.962 python-ping NA
1.962.1 Available under license :

A pure python ping implementation using raw socket.

Note that ICMP messages can only be sent from processes running as root.

Derived from ping.c distributed in Linux's netkit. That code is copyright (c) 1989 by The Regents of the University of California. That code is in turn derived from code written by Mike Muuss of the US Army Ballistic Research Laboratory in December, 1983 and placed in the public domain. They have my thanks.

Bugs are naturally mine. I'd be glad to hear about them. There are certainly word - size dependenceies here.

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Original Version from Matthew Dixon Cowles:

Rewrite by Jens Diemer:
   -> http://www.python-forum.de/post-69122.html#69122
March 11, 2010
changes by Samuel Stauffer:
- replaced time.clock with default_timer which is set to
time.clock on windows and time.time on other systems.

May 30, 2007
little rewrite by Jens Diemer:
- change socket asterisk import to a normal import
- replace time.time() with time.clock()
- delete "return None" (or change to "return" only)
- in checksum() rename "str" to "source_string"

November 22, 1997
Initial hack. Doesn't do much, but rather than try to guess
what features I (or others) will want in the future, I've only
put in what I need now.

December 16, 1997
For some reason, the checksum bytes are in the wrong order when
this is run under Solaris 2.X for SPARC but it works right under
Linux x86. Since I don't know just what's wrong, I'll swap the
bytes always and then do an htons().

December 4, 2000
Changed the struct.pack() calls to pack the checksum and ID as
unsigned. My thanks to Jerome Poincheval for the fix.

Januari 27, 2015
Changed receive response to not accept ICMP request messages.
It was possible to receive the very request that was sent.

Last commit info:
~~~~~~~~~~~~~~
$LastChangedDate: $
$Rev: $
$Author: $
***

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Version 2, June 1991

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1.963 python-pip 1.4.1

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1.964 python-prettytable 0.6.1 :1.el6

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```

1.965 python-pycurl 7.19.0 :8.el6

1.965.1 Available under license:

```
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Version 2.1, February 1999

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1.966 python-pygments 1.1.1 :1.el6

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1.967 python-pygments_GPLv3 1.4 :9.el7

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 (ccopy_reg
  _reconstructor
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  _TokenType
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tuple
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g2
g3
g4
g5
 S'Symbol'
p11
ttRp12

...
Open Source Used in Network Function Virtualization Infrastructure System Release 3.9.1

3885

sbsS'Builtin'

p83

p95

sg15

sbsS'Identifier'

sbsS'Other'

3885
g8
g9
((ltRp209
sg15
g167
sbag170
atRp210
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g207
sg202
g203
sg198
g199
sbag5
g6
s'SPunctuation'
p211
g2
(g3
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ttRp212
dp213

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(g211
'S'Indicator'
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ttRp216
dp217

g8
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((ltRp218
sg15
g212
sbagRp219
sg219
sg215
g216
sg15

g21
'sbsSToken'
p220

g21
's'SNumber'
V# New ports collection makefile for: python25\u000a
p364
tp365
ag6
V
tp366
atg24
V# Date created: 3 July 2003\u000a
p367
 tp368
ag6
V
tp369
Hye-Shik Chang <perky@FreeBSD.org>
VCATEGORIES

p393
tp394
a(g353
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tp395
a(g6
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p397

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V

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p400
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tp408
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tp409
VWRKSRC
p471
tp472
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V=
tp473
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tp475
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tp477
a(g100
VPYTHON_WRKSRC
p478
tp479
a(g138
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}

V/portbld.static
p481
tp482
a(g6
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a(g100
VPATCH_WRKSRC
p484
tp485
a(g353
V=
tp486
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a(g6
V\u000a000a
 tp500
a(g100
VCONFIGURE_TARGET
p501
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)
V-portbld-freebsd

V$}

VCONFIGURE_SCRIPT

V../configure

V# must be relative

VCONFIGURE_ENV
V

tp533
atg100
V
O

p534
tp535
atg353
V=
tp536
atg255
V"{CFLAGS}" 
p537
tp538
atg6
V

tp539
atg100
V

S

p540
tp541
atg353
V=
tp542
atg255
V"echo freebsd"
p543
tp544
atg6
V
p545
atg100
V

A

p546
tp547
atg353
V=
tp548
atg6
V

tp549
atg100
V

s

p550
tp551
atg353
V=
tp552
atg255
V/portbld.shared
p615
tp616
a(g6
V\u0000a
tp617
a(g100
VPLIST
p618
tp619
a(g353
V=
tp620
a(g6
V
p621
tp622
a(g138
V${}\$
p623
tp624
a(g100
VWRKDIR
p625
tp626
a(g138
V}
tp627
a(g6
V/PLIST
p628
tp629
a(g6
V\u0000a
tp630
a(g6
VPLIST_TEMPLATE?
p631
tp632
a(g353
V=
tp633
a(g138
V${}\$
p634
tp635
a(g100
VPKGDIR
VPREFIX

VSHARE

VPYTHON_VERSION

VBIN_SCRIPTS

Vidle

Vpydoc
a(g6
V
tp720
a(g6
Vpython
p721
tp722
a(g6
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tp723
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Vpython-shared
p724
tp725
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tp726
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Vsmtpd.py
p727
tp728
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tp729
a(g6
Vpython-config
p730
tp731
a(g6
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tp732
a(g262
V\u005c\u000a
p733
tp734
a(g6
V
p735
tp736
a(g6
Vpython-shared-config
p737
tp738
a(g6
V\u000a
p739
a(g100
VBINLINKS_SUB
tp762
tag353
V=
tp763
tag6
V
tp764
tag6
VTHREADS
p765
tag6
V
tp766
tag6
V
"Enable thread support"
p768
tag6
V
\u005c\u000a
\u000c\u000a
p771
tag6
V
p772
tag6
V
p773
tag262
VHUGE_STACK_SIZE
p774
tag6
V
p775
tag6
V
p776
tag6
V
p777
tag6
V
"Use a larger thread stack"
p781
tag6

"Use UCS4 for unicode support"
"Use python's internal malloc"

"Enable IPv6 support"
"Enable floating point exception handling"

#include <bsd.port.pre.mk>

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}
V"@comment "

V# workaround for a bug in base curses.h.
V--with-threads
p909
tp910
atg6
V\u0000a
tp911
atg6
VCFLAGS+
p912
tp913
atg353
V=
tp914
atg6
V
p915
tp916
atg138
V${}
p917
tp918
atg100
VPTHREAD_CFLAGS
p919
tp920
atg138
V}
tp921
atg6
V\u0000a
tp922
atg27
V.if defined(WITHOUT_HUGE_STACK_SIZE)\u0000a
p923
tp924
atg6
V
tp925
atg6
VCFLAGS+
p926
tp927
atg353
V=
tp928
atg6
V
p929
V-DTHREAD_STACK_SIZE

V0x20000

V-DTHREAD_STACK_SIZE

V0x100000
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)

VCONFIGURE_ENV+

VCONFIGURE_ARGS+

V"$\{PTHREAD_LIBS\} $\{LDFLAGS\}"

V\u000a
a(g6
V--without-threads
p972
tp973
a(g6
V\u000a

V if defined(LDFLAGS)\u000a
p975
tp976
a(g6
V

VCONFIGURE_ENV+
p978

tp979
a(g353
V=
tp980
a(g6
V

p981
tp982
a(g100

V\LDFLAGS
p983

tp984
a(g353
V=
tp985
a(g255

V"${LDFLAGS}"  
p986


tp987
a(g6
V\u000a

V.endif # defined(LDFLAGS)\u000a
p989


tp990
a(g6
V

V.endif # !defined(WITHOUT_THREADS)\u000a
if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)

VCONFIGURE_ARGS+=

--enable-unicode

if defined(WITHOUT_PYMALLOC)


V
p1013
a(g6
VCONFIGURE_ARGS+
p1014
p1015
a(g353
V=
p1016
a(g6
V
p1017
p1018
a(g6
V--without-pymalloc
p1019
p1020
a(g6
Vuu000a
p1021
a(g27
V.endif\u000a
p1022
p1023
a(g6
V\u000a
p1024
a(g27
V.if ${ARCH} == i386\n\u000a
p1025
p1026
a(g6
V
p1027
a(g6
VPLIST_SUB+
p1028
p1029
a(g53
V=
p1030
a(g6
V
p1031
a(g100
VX86_ONLY
p1032
p1033
a(g353
V=
tp1034
a(g255
V="
tp1035
a(g256
V
p1036
a(g6
V\u000a
p1037
a(g27
V.else\u000a
p1038
da(g6
V
p1039
da(g6
V
p1040
da(g6
VPLIST_SUB+
p1041
da(g353
V=
tp1042
da(g6
V
p1043
da(g6
V
p1044
da(g100
VX86_ONLY
p1045
da(g353
V=
tp1046
da(g255
V"@comment "
p1047
da(g255
V\u000a
p1048
da(g6
V\u000a
p1049
da(g6
V.endif
p1050
a(g27
V.endif\u000a
p1051
a(g6
V
p1052
a(g27)
VIF $ARCH == amd64 || $ARCH == ia64 || $ARCH == sparc64 || $ARCH == alpha_a64
p1054
tp1055
a(g6)
V
p1056
a(g6)
VPLIST_SUB+
p1057
tp1058
a(g353)
V=
tp1059
a(g6)
V
p1060
tp1061
a(g100)
V32BIT_ONLY
p1062
tp1063
a(g353)
V=
tp1064
a(g255)
V"@comment "
p1065
tp1066
a(g6)
V\u000a
p1067
a(g27)
V else\u000a
p1068
tp1069
a(g6)
V
p1070
a(g6)
VPLIST_SUB+
p1071
tp1072
a(g353)
V=
tp1073
a(g6)
V
V32BIT_ONLY

if \${ARCH} == sparc64

VCFLAGS+

-DPYTHON_DEFAULT_RECURSION_LIMIT

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3942
if !exists(/usr/bin/ypcat) # the world with NO_NIS

VLIST_SUB+

V

V

VNO_NIS

V" @comment "

V.

V

V

V.

V

V.

V.
VPLIST_SUB+

VNO_NIS

V

V

V
tp1136
a(g6
V
tp1137
a(g6
V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
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
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
elif ${OSVERSION} >= 600000
V
V=VPLATFORMS

Vplat-freebsd4

Vplat-freebsd5

Vplat-freebsd7
V.else\u000a
p1197
tp1198
atg6
V
tp1199
atg100
VPLATFORMS
p1200
tp1201
atg353
V=
tp1202
atg6
Vplat-freebsd4
p1203
tp1204
atg6
V
tp1205
atg6
Vplat-freebsd6
p1206
tp1207
atg6
V
tp1208
atg6
Vplat-freebsd7
p1209
tp1210
atg6
V\u000a
tp1211
atg27
V.endif\u000a
p1212
tp1213
atg6
V\u000a
tp1214
atg6
Vpre-patch:
p1215
tp1216
atg6
V\u000a
p1217
VWRKDIR
p1303
tp1304
at(g138
V} tp1305
at(g6 V/idle2.5 tp1306
at(g6 V\uu000a tp1308
at(g138 V$}

V1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1319
at(g6 V tp1321
at(g6 V-e tp1316
tp1317
at(g6 V tp1318
at(g281 V1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1319
tp1320
at(g6 V tp1321
at(g262 V\uu005c\uu000a tp1322
at(g6 V
VPATCH_WRKDIR

VWRKDIR
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3960
V_PATCH_WRK_SRC

V/Misc/python-config.in

VWRKDIR

VPYTHON_VERSION

V-config
V/Misc/python-config.in

WWRKDIR

VPYTHON_VERSION
if defined(WITH_FPECTL) && $ARCH == i386

VMKDIR

VWRKSRC
tp1562
atp1563
Vtu0000a
p1565
tp1566
atp1567
V$}
p1568
tp1569
atp1570
V
tp1571
atp1572
V"fpectl fpectlmodule.c"
V>>
p1573
tp1574
atp1575
V
tp1576
atp1577
V$}
p1578
tp1579
atp1580
V}
tp1581
atp1582
V/Modules/Setup.dist
V's, "LDLIBRARY=\u005c1libpython\$(VERSION).so,'
V\u005c\u000a
V's, "BLDLIBRARY=\u005c1-L. -lpython\$(VERSION),'
V\u005c\u000a
V
VWRKSRC
p1731
tp1732
a(g138
V)
tp1733
a(g6
V/Makefile
p1734
tp1735
a(g6
V
p1736
a(g6
V>
tp1737
a(g6
V
p1738
a(g138
V$

VSHARED_WRKSRC
p1741
tp1742
a(g138
V)
tp1743
a(g6
V/Makefile
p1744
tp1745
a(g6
V\uu000a\uu000a
p1746
tp1747
a(g6
Vpre-build:
p1748
tp1749
a(g6
V\uu000a
p1750
tp1751
a(g84
Vcd
VSHARED_WRKSRC

VSETENV
VMAKE_ENV
p1773
.tp1774
.a(g138
.V}
.tp1775
.a(g6
.V
.tp1776
.a(g138
.V$
.p1777
.tp1778
.a(g100
.VMAKE
.p1779
.tp1780
.a(g138
.V}
.tp1781
.a(g6
.V
.tp1782
.a(g6
.Vlib
.p1783
.tp1784
.a(g138
.V$
.p1785
.tp1786
.a(g100
.VPYTHON_VERSION
.p1787
.tp1788
.a(g138
.V}
.tp1789
.a(g6
.V.so
.p1790
.tp1791
.a(g6
.V
.tp1792
.a(g6
.Vpython;
V: $PYTHON_VERSION

V/thon/thon-shared/

V/pre-su-install:
V. for platform in ${PLATFORMS}\u000a
p1857
tp1858
at\(g6\)
V

V.$\{\)

a(a138

V\}

tp1863
at\(g138\)

V\}

tp1864
at\(g6\)

V

V.$\{\)

a(a138

V\}

V$\{\)

a(a138

V\}

Vplatform

V$\{\)

a(a138

V}\n
V}

V$\{\)

a(a138

V\}

V$\{\)

a(a138

V$\{\)

a(a100

Vplatform

V$\{\)

a(a138

V\}

V$\{\)

a(a138

V\}

at(g27
V for file in IN.py regen\u000a
p1878
rp1879
at(g6
V
rp1880
at(g138
V${\}

r1881
rp1882
at(g100
VINSTALL_DATA

r1883
rp1884
at(g138
V$

r1885
at(g6
V
rp1886
at(g138
V${\}

r1887
rp1888
at(g100
VWRKSRC

r1889
rp1890
at(g138
V$

r1891
at(g6
V/Lib/

r1892
rp1893
at(g138
V${\}

r1894
rp1895
at(g100
Vplatform

r1896
rp1897
at(g138
V$

r1898
at(g6

VPLIST_TEMPLATE
p1941
tp1942
a(g138
V} tp1943
a(g6
V tp1944
a(g6
V tp1945
a(g6
V tp1946
a(g138
V$\{ tp1947
p1948
a(g100
VAWK p1949
tp1950
a(g138
V} tp1951
a(g6
V tp1952
a(g281
V'{ print $$0; } \backslash005c\u000a/LIBDIR.*\005c.py$$/ && !/\005c/bad/ { print $$0 "o"; print $$0 "c"; }' p1953
tp1954
a(g6
V tp1955
a(g6
V tp1956
a(g6
V tp1957
a(g138
V$\{ p1958
p1959
a(g100
VPLIST
if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
p2042
p2043
a(g100
VPLLST
p2044
tp2045
a(g138
V)
tp2046
a(g353
V)
tp2047
a(g6
V
tp2048
a(g353
V||
p2049
tp2050
a(g6
V
tp2051
a(g138
V$

p2052
tp2053
a(g100
VTRUE
p2054
tp2055
a(g138
V)
tp2056
a(g6
V\u000a\u000a
p2057
tp2058
a(g6
Vpost-install:
p2059
tp2060
a(g6
V\u000a
p2061
a(g24
V@# install config providers\u000a
p2062
tp2063
V@# shared version of executable and library

p2127

V

tp2128

@g6

V

tp2129

@g138

V$

p2130

tp2131

@g100

VINSTALL_PROGRAM

p2132

V

tp2133

@g138

V$

p2134

@g6

V

tp2135

@g138

V$

p2136

tp2137

@g100

VSHARED_WRK_SRC

p2138

V

tp2139

@g138

V$

p2140

@g6

V/lib

tp2141

V

tp2142

@g138

V$

p2143

tp2144

@g100

VPYTHON_VERSION

p2145

V

tp2146

@g138

V$

p2147

@g6

V.so.1
additional files installing by ports

VINSTALL_SCRIPT

VWRKDIR
V$\{ 
 p2387 
 tp2388 
 a( g100 
 VBIN_SCRIPTS 
 p2389 
 tp2390 
 a( g138 
 V \} 
 tp2391 
 a( g6 
 V 
 tp2392 
 a( g6 
 V 
 tp2393 
 a( g138 
 Vdo 
 p2394 
 tp2395 
 a( g6 
 V 
 tp2396 
 a( g262 
 V\u005c\u000a 
 p2397 
 tp2398 
 a( g6 
 V 
 p2399 
 tp2400 
 a( g100 
 VTARGET 
 p2401 
 tp2402 
 a( g353 
 V= 
 tp2403 
 a( g274 
 V` 
 tp2404 
 a( g138 
 V$\{ 
 p2405 
 tp2406 
 a( g100 
 VECCHO_CMD 
 p2407
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4006
V@ cd

V$}

VMKDIR

V$}

VDEMODIR

V$}

VPYTHON_WRKSRCE
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1.971 python-schedutils 0.4 :6.el7

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1.972 python-setuptools 2.0.1

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# Major enhancements and refactoring by:
#    Jim Fulton
#    Edward Loper

1.973 python-setuptools 0.6.10 :3.el6

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1.1025 rsyslog 5.8.10 :6.el6

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1.1044 ServiceLocator Default Implementation 2.4.0-b06

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package javax.servlet.jsp.tagext;

import java.io.Reader;
import java.io.Writer;
import java.io.IOException;
import javax.servlet.jsp.**

/**
 * A JspWriter subclass that can be used to process body evaluations
 * so they can re-extracted later on.
 */

public abstract class BodyContent extends JspWriter {

    /**
     * Protected constructor.
     *
     * Unbounded buffer, no autoflushing.
     */

    protected BodyContent(JspWriter e) {
        super(UNBOUNDED_BUFFER, false);
        this.enclosingWriter = e;
    }

    /**
     * Redefine flush().
     * It is not valid to flush.
     */

    public void flush() throws IOException {
        throw new IOException("Illegal to flush within a custom tag");
    }

    /**
     * Clear the body.
     */
public void clearBody() {
    try {
        this.clear();
    } catch (IOException ex) {
        // TODO -- clean this one up.
        throw new Error("internal error!;");
    }
}

/**
 * Return the value of this BodyContent as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of this BodyContent as a Reader
 */
public abstract Reader getReader();

/**
 * Return the value of the BodyContent as a String.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of the BodyContent as a String
 */
public abstract String getString();

/**
 * Write the contents of this BodyContent into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 *
 * @param out The writer into which to place the contents of
 * this body evaluation
 */
public abstract void writeOut(Writer out) throws IOException;

/**
 * Get the enclosing JspWriter
 *
 * @returns the enclosing JspWriter passed at construction time
 */
public JspWriter getEnclosingWriter() {
    return enclosingWriter;
}
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1.1046 set-immediate-shim 1.0.1

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1.1048 setserial 2.17 :25.el6
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# the same distribution terms that you use for the rest of that program.

# Written by Per Bothner <bothner@cygnus.com>.
# The master version of this file is at the FSF in /home/gd-gnu/lib.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit system type (host/target name).
#
# Only a few systems have been added to this list; please add others
# (but try to keep the structure clean).
#
#!/bin/sh
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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#
# Calling this script install-sh is preferred over install.sh, to prevent
# 'make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
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#
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Doug Gilbert
4th January 2009
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 */

package oauth.signpost.commonshttp;

import java.io.IOException;
import oauth.signpost.AbstractOAuthProvider;
import oauth.signpost.http.HttpRequest;


/**
 * This implementation uses the Apache Commons { @link HttpClient } 4.x HTTP
 * implementation to fetch OAuth tokens from a service provider. Android users
 * should use this provider implementation in favor of the default one, since
 * the latter is known to cause problems with Android's Apache Harmony
 * underpinnings.
* @author Matthias Kaeppler
*/

public class CommonsHttpOAuthProvider extends AbstractOAuthProvider {

    private static final long serialVersionUID = 1L;
    private transient HttpClient httpClient;

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
                                       String authorizationWebsiteUrl) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = new DefaultHttpClient();
    }

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
                                       String authorizationWebsiteUrl, HttpClient httpClient) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = httpClient;
    }

    public void setHttpClient(HttpClient httpClient) {
        this.httpClient = httpClient;
    }

    @Override
    protected HttpRequest createRequest(String endpointUrl) throws Exception {
        HttpPost request = new HttpPost(endpointUrl);
        return new HttpRequestAdapter(request);
    }

    @Override
    protected oauth.signpost.http.HttpResponse sendRequest(HttpRequest request) throws Exception {
        HttpResponse response = httpClient.execute((HttpUriRequest) request.unwrap());
        return new HttpResponseAdapter(response);
    }

    @Override
    protected void closeConnection(HttpRequest request, oauth.signpost.http.HttpResponse response)
            throws Exception {
        if (response != null) {
            HttpEntity entity = ((HttpResponse) response.unwrap()).getEntity();
            if (entity != null) {
                try {
                    // free the connection
                    entity.consumeContent();
                } catch (IOException e) {
                    // this means HTTP keep-alive is not possible
                }
            }
        }
    }
}
1.1059 signpost-core 1.2.1.2

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Version 2.0, January 2004

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import java.io.IOException;
import java.io.InputStream;
import java.util.Random;
import oauth.signpost/basic.UrlStringRequestAdapter;
import oauth.signpost.exception.OAuthCommunicationException;
import oauth.signpost.exception.OAuthExpectationFailedException;
import oauth.signpost.exception.OAuthMessageSignerException;
import oauth.signpost.http.HttpParameters;
import oauth.signpost.http.HttpRequest;
import oauth.signpost.signature.AuthorizationHeaderSigningStrategy;
import oauth.signpost.signature.HmacSha1MessageSigner;
import oauth.signpost.signature.OAuthMessageSigner;
import oauth.signpost.signature.QueryStringSigningStrategy;
import oauth.signpost.signature.SigningStrategy;

/**
 * ABC for consumer implementations. If you’re developing a custom consumer you
 * will probably inherit from this class to save you a lot of work.
 *
 * @author Matthias Kaeppler
 */
public abstract class AbstractOAuthConsumer implements OAuthConsumer {

    private static final long serialVersionUID = 1L;

    private String consumerKey, consumerSecret;

    private String token;

    private OAuthMessageSigner messageSigner;

    private SigningStrategy signingStrategy;

    // these are params that may be passed to the consumer directly (i.e.
    // without going through the request object)
    private HttpParameters additionalParameters;

    // these are the params which will be passed to the message signer
    private HttpParameters requestParameters;

    private boolean sendEmptyTokens;

    final private Random random = new Random(System.nanoTime());

    public AbstractOAuthConsumer(String consumerKey, String consumerSecret) {
        this.consumerKey = consumerKey;
        this.consumerSecret = consumerSecret;
        setMessageSigner(new HmacSha1MessageSigner());
        setSigningStrategy(new AuthorizationHeaderSigningStrategy());
    }

    public void setMessageSigner(OAuthMessageSigner messageSigner) {
        this.messageSigner = messageSigner;
        messageSigner.setConsumerSecret(consumerSecret);
    }

    public void setSigningStrategy(SigningStrategy signingStrategy) {
        this.signingStrategy = signingStrategy;
    }

    public void setSigningStrategy(SigningStrategy signingStrategy) {
        this.signingStrategy = signingStrategy;
    }
}
public void setAdditionalParameters(HttpParameters additionalParameters) {
    this.additionalParameters = additionalParameters;
}

public synchronized HttpRequest sign(HttpRequest request) throws OAuthMessageSignerException,
    OAuthExpectationFailedException, OAuthCommunicationException {
    if (consumerKey == null) {
        throw new OAuthExpectationFailedException("consumer key not set");
    }
    if (consumerSecret == null) {
        throw new OAuthExpectationFailedException("consumer secret not set");
    }

    requestParameters = new HttpParameters();
    try {
        if (additionalParameters != null) {
            requestParameters.putAll(additionalParameters, false);
        }
        collectHeaderParameters(request, requestParameters);
        collectQueryParameters(request, requestParameters);
        collectBodyParameters(request, requestParameters);
        // add any OAuth params that haven't already been set
        completeOAuthParameters(requestParameters);
        requestParameters.remove(OAuth.OAUTH_SIGNATURE);
    } catch (IOException e) {
        throw new OAuthCommunicationException(e);
    }

    String signature = messageSigner.sign(request, requestParameters);
    OAuth.debugOut("signature", signature);
    signingStrategy.writeSignature(signature, request, requestParameters);
    OAuth.debugOut("Request URL", request.getRequestUrl());

    return request;
}

public synchronized HttpRequest sign(Object request) throws OAuthMessageSignerException,
    OAuthExpectationFailedException, OAuthCommunicationException {
    return sign(wrap(request));
}

public synchronized String sign(String url) throws OAuthMessageSignerException,
    OAuthExpectationFailedException, OAuthCommunicationException {

HttpRequest request = new UrlStringRequestAdapter(url);

// switch to URL signing
SigningStrategy oldStrategy = this.signingStrategy;
this.signingStrategy = new QueryStringSigningStrategy();

sign(request);

// revert to old strategy
this.signingStrategy = oldStrategy;

return request.getRequestUrl();
}

/**
 * Adapts the given request object to a Signpost @link HttpRequest. How
 * this is done depends on the consumer implementation.
 *
 * @param request
 *        the native HTTP request instance
 * @return the adapted request
 */
protected abstract HttpRequest wrap(Object request);

public void setTokenWithSecret(String token, String tokenSecret) {
    this.token = token;
    messageSigner.setTokenSecret(tokenSecret);
}

public String getToken() {
    return token;
}

public String getTokenSecret() {
    return messageSigner.getTokenSecret();
}

public String getConsumerKey() {
    return this.consumerKey;
}

public String getConsumerSecret() {
    return this.consumerSecret;
}

/**
 * <p>
 * Helper method that adds any OAuth parameters to the given request
 */
parameters which are missing from the current request but required for signing. A good example is the oauth_nonce parameter, which is typically not provided by the client in advance.

It's probably not a very good idea to override this method. If you want to generate different nonces or timestamps, override @link #generateNonce() or @link #generateTimestamp() instead.

@throws java.security.userdetails.AuthenticationException (if the given credentials do not match a valid user)

protected void completeOAuthParameters(HttpParameters out) {
    if (!out.containsKey(OAuth.OAUTH_CONSUMER_KEY)) {
        out.put(OAuth.OAUTH_CONSUMER_KEY, consumerKey, true);
    }
    if (!out.containsKey(OAuth.OAUTH_SIGNATURE_METHOD)) {
        out.put(OAuth.OAUTH_SIGNATURE_METHOD, messageSigner.getSignatureMethod(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_TIMESTAMP)) {
        out.put(OAuth.OAUTH_TIMESTAMP, generateTimestamp(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_NONCE)) {
        out.put(OAuth.OAUTH_NONCE, generateNonce(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_VERSION)) {
        out.put(OAuth.OAUTH_VERSION, OAuth.VERSION_1_0, true);
    }
    if (!out.containsKey(OAuth.OAUTH_TOKEN)) {
        if (token != null && !token.equals("") || sendEmptyTokens) {
            out.put(OAuth.OAUTH_TOKEN, token, true);
        }
    }
}

public HttpParameters getRequestParameters() {
    return requestParameters;
}

public void setSendEmptyTokens(boolean enable) {
    this.sendEmptyTokens = enable;
}

/**
 * Collects OAuth Authorization header parameters as per OAuth Core 1.0 spec section 9.1.1
 */
protected void collectHeaderParameters(HttpRequest request, HttpParameters out) {
    HttpParameters headerParams =
    OAuth.oauthHeaderToParamsMap(request.getHeader(OAuth.HTTP_AUTHORIZATION_HEADER));
    out.putAll(headerParams, false);
}

/**
* Collects x-www-form-urlencoded body parameters as per OAuth Core 1.0 spec
* section 9.1.1
*/
protected void collectBodyParameters(HttpRequest request, HttpParameters out)
    throws IOException {

    // collect x-www-form-urlencoded body params
    String contentType = request.getContentType();
    if (contentType != null && contentType.startsWith(OAuth.FORM_ENCODED)) {
        InputStream payload = request.getMessagePayload();
        out.putAll(OAuth.decodeForm(payload), true);
    }
}

/**
* Collects HTTP GET query string parameters as per OAuth Core 1.0 spec
* section 9.1.1
*/
protected void collectQueryParameters(HttpRequest request, HttpParameters out) {

    String url = request.getRequestUrl();
    int q = url.indexOf('?');
    if (q >= 0) {
        // Combine the URL query string with the other parameters:
        out.putAll(OAuth.decodeForm(url.substring(q + 1)), true);
    }
}

protected String generateTimestamp() {
    return Long.toString(System.currentTimeMillis() / 1000L);
}

protected String generateNonce() {
    return Long.toString(random.nextLong());
}

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* 
* 
*/
package com.google.gdata.util.common.base;

/**
 * An object that converts literal text into a format safe for inclusion in a
 * particular context (such as an XML document). Typically (but not always), the
 * inverse process of "unescaping" the text is performed automatically by the
 * relevant parser.
 *
 * For example, an XML escaper would convert the literal string "Foo<Bar>"
 * into "Foo&lt;Bar&gt;" to prevent "<Bar>" from being confused with an XML tag. When the resulting XML document is parsed,
 * the parser API will return this text as the original literal string "Foo<Bar>".
 *
 * An Escaper instance is required to be stateless, and safe when
 * used concurrently by multiple threads.
 *
 * Several popular escapers are defined as constants in the class CharEscapers. To create your own escapers, use CharEscaperBuilder, or extend CharEscaper or UnicodeEscaper.
 *
 */

public interface Escaper {

/**
 * Returns the escaped form of a given literal string.
 *
 * Note that this method may treat input characters differently depending on
 * the specific escaper implementation.
 *
 * @link UnicodeEscaper handles
 *
 * including surrogate character pairs. If the input is badly formed the
 * escaper should throw IllegalArgumentException.
 *
 * @link CharEscaper handles Java characters independently and does not
 * verify the input for well formed characters. A CharEscaper should not be
 * used in situations where input is not guaranteed to be restricted to the
 */
* Basic Multilingual Plane (BMP).
* </ul>

* @param string the literal string to be escaped
* @return the escaped form of [@code string]
* @throws NullPointerException if [@code string] is null
* @throws IllegalArgumentException if [@code string] contains badly formed
*    UTF-16 or cannot be escaped for any other reason
*/

public String escape(String string);

/**
 * Returns an [@code Appendable] instance which automatically escapes all
 * text appended to it before passing the resulting text to an underlying
 * [@code Appendable].
 *
 * <p>Note that this method may treat input characters differently depending on
 * the specific escaper implementation.
 *
 * @param out the underlying [@code Appendable] to append escaped output to
 * @return an [@code Appendable] which passes text to [@code out] after
 *     escaping it.
 */

public Appendable escape(Appendable out);

1.1060 simple-fmt 0.1.0
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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

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*/

cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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import java.text.*;
import org.snmp4j.smi.OctetString;
import org.snmp4j.smi.OID;
import java.util.StringTokenizer;

/**
 * The <code>SimpleOIDTextFormat</code> implements a simple textual
 * representation for object IDs as dotted string.
 *
 * @author Frank Fock
 * @version 2.2
 * @since 1.10
 */
public class SimpleOIDTextFormat implements OIDTextFormat {

    /**
     * Creates a simple OID text format.
     */
    public SimpleOIDTextFormat() {
    }

    /**
     * Returns a textual representation of a raw object ID as dotted
     * string ("1.3.6.1.4").
     *
     * @param value
     *    the OID value to format.
     * @return
     *    the textual representation.
     */
    public static String formatOID(int[] value) {
        StringBuilder buf = new StringBuilder(3*value.length);
        for (int i=0; i<value.length; i++) {
            if (i != 0) {
                buf.append('.');
            }
            buf.append((value[i] & 0xFFFFFFFFL));
        }
        return buf.toString();
    }
}
/**
 * Returns a textual representation of a raw object ID as dotted
 * string ("1.3.6.1.4").
 * @param value
 *    the OID value to format.
 * @return
 *    the textual representation.
 */
public String format(int[] value) {
    return SimpleOIDTextFormat.formatOID(value);
}

/**
 * Returns a textual representation of a raw object ID as dotted
 * string ("1.3.6.1.4"). This method is the same as @link #format(int[]).
 * @param value
 *    the OID value to format.
 * @return
 *    the textual representation.
 */
public String formatForRoundTrip(int[] value) {
    return format(value);
}

/**
 * Parses a textual representation of an object ID as dotted string
 * (e.g. "1.3.6.1.2.1.1") and returns its raw value.
 * @param text
 *    a textual representation of an OID.
 * @return
 *    the raw OID value.
 * @throws ParseException
 *    if the OID cannot be parsed successfully.
 */
public static int[] parseOID(String text) throws ParseException {
    StringTokenizer st = new StringTokenizer(text, ".", true);
    int size = st.countTokens();
    int[] value = new int[size];
    size = 0;
    StringBuffer buf = null;
    while (st.hasMoreTokens()) {
        return buf.toString();
    }
}
String t = st.nextToken();
if ((buf == null) && t.startsWith("'")) {
buf = new StringBuffer();
t = t.substring(1);
}
if ((buf != null) && (t.endsWith("'"))) {
buf.append(t.substring(0, t.length()-1));
OID o = new OctetString(buf.toString()).toSubIndex(true);
int[] h = value;
value = new int[st.countTokens()+h.length+o.size()];
System.arraycopy(h, 0, value, 0, size);
System.arraycopy(o.getValue(), 0, value, size, o.size());
size += o.size();
buf = null;
}
else if (buf != null) {
buf.append(t);
}
else if (!".".equals(t)) {
value[size++] = (int) Long.parseLong(t.trim());
}
}
if (size < value.length) {
int[] h = value;
value = new int[size];
System.arraycopy(h, 0, value, 0, size);
}
return value;
}
/**
* Parses a textual representation of an object ID as dotted string
* (e.g. "1.3.6.1.2.1.1") and returns its raw value.
*
* @param text
* a textual representation of an OID.
* @return
* the raw OID value.
* @throws ParseException
* if the OID cannot be parsed successfully.
*/
public int[] parse(String text) throws ParseException {
return SimpleOIDTextFormat.parseOID(text);
}
}
/*_############################################################################
_##
_## SNMP4J 2 - SimpleVariableTextFormat.java

Open Source Used In Network Function Virtualization Infrastructure System Release 3.9.1
4474


import java.text.*;
import org.snmp4j.smi.*;
import org.snmp4j.SNMP4JSettings;

/**
 * The <code>SimpleVariableTextFormat</code> implements a simple textual
 * representation for SNMP variables based on their type only.
 * No MIB information is used (can be used).
 *
 * @author Frank Fock
 * @version 1.10
 * @since 1.10
 */

public class SimpleVariableTextFormat implements VariableTextFormat {

/**
 * Creates a simple variable text format.
 */

public SimpleVariableTextFormat() {
}

/**
 * Returns a textual representation of the supplied variable against the
 * optionally supplied instance OID.
 *
 * @param instanceOID the instance OID <code>variable</code> is associated
 * with. If <code>null</code> the formatting cannot take any MIB
 * specification of the variable into account and has to format it based
 * on its type only.
/**
 * @param variable
 * the variable to format.
 * @param withOID
 * if true the instanceOID should be included in the textual representation to form a VariableBinding representation.
 * @return the textual representation.
 */
public String format(OID instanceOID, Variable variable, boolean withOID) {
    return (withOID) ? 
        SNMP4JSettings.getOIDTextFormat().format(instanceOID.getValue())+
        " = "+variable : variable.toString();
}

/**
 * This operation is not supported by SimpleVariableTextFormat.
 *
 * @param smiSyntax the SMI syntax identifier identifying the target Variable.
 * @param text a textual representation of the variable.
 * @return the new Variable instance.
 * @throws ParseException if the variable cannot be parsed successfully.
 */
public Variable parse(int smiSyntax, String text) throws ParseException {
    Variable v = AbstractVariable.createFromSyntax(smiSyntax);
    if (v instanceof AssignableFromString) {
        ((AssignableFromString)v).setValue(text);
    }
    return v;
}

/**
 * This operation is not supported by SimpleVariableTextFormat.
 *
 * @param classOrInstanceOID the instance OID variable is associated with. Must not be null.
 * @param text a textual representation of the variable.
 * @return the new Variable instance.
 * @throws ParseException if the variable cannot be parsed successfully.
 */
public Variable parse(OID classOrInstanceOID, String text) throws ParseException {
    throw new UnsupportedOperationException();
}
public VariableBinding parseVariableBinding(String text) throws ParseException {
    int assignmentPos = text.indexOf(" = ");
    if (assignmentPos <= 0) {
        throw new ParseException("Could not locate assignment ' = ' string in " +
                                text, 0);
    }
    OID oid = new OID(SNMP4JSettings.getOIDTextFormat().
                        parse(text.substring(0, assignmentPos)));
    Variable var = parse(oid, text.substring(assignmentPos+3));
    return new VariableBinding(oid, var);
}

package org.snmp4j;
import java.io.IOException;
import java.util.*;
import org.snmp4j.asn1.*;
import org.snmp4j.event.*;
import org.snmp4j.log.*;
import org.snmp4j.mp.*;
import org.snmp4j.security.SecurityLevel;
import org.snmp4j.security.TsmSecurityStateReference;
import org.snmp4j.smi.*;
import java.nio.ByteBuffer;
import org.snmp4j.transport.UnsupportedAddressClassException;

The `MessageDispatcherImpl` decodes and dispatches incoming messages using `MessageProcessingModel` instances and encodes and sends outgoing messages using an appropriate `TransportMapping` instances.

The method `processMessage` will be called from a `TransportMapping` whereas the method `sendPdu` will be called by the application.

* @see Snmp
* @see TransportMapping
* @see MessageProcessingModel
* @see MPv1
* @see MPv2c
* @see MPv3

* @author Frank Fock
* @version 2.0

public class MessageDispatcherImpl implements MessageDispatcher {

    private static final LogAdapter logger = LogFactory.getLogger(MessageDispatcherImpl.class);

    private List<MessageProcessingModel> mpm = new ArrayList<MessageProcessingModel>(3);
    private Map<Class<? extends Address>, List<TransportMapping>> transportMappings =
        new Hashtable<Class<? extends Address>, List<TransportMapping>>(5);

    private int nextTransactionID = new Random().nextInt(Integer.MAX_VALUE-2)+1;
    private transient List<CommandResponder> commandResponderListeners;
    private transient List<CounterListener> counterListeners;
    private transient List<AuthenticationFailureListener> authenticationFailureListeners;

    private boolean checkOutgoingMsg = true;

    /**
     * Default constructor creates a message dispatcher without any associated
     * message processing models.
     */
    public MessageDispatcherImpl() {
    }

    /**
     * Adds a message processing model to this message dispatcher. If a message
     * processing model with the same ID as the supplied one already exists it
     * will not be changed. Please call `removeMessageProcessingModel`
     * before to replace a message processing model.
     */
}
* @param model
  * a MessageProcessingModel instance.
  */
public synchronized void addMessageProcessingModel(MessageProcessingModel model) {
  while (mpm.size() <= model.getID()) {
    mpm.add(null);
  }
  if (mpm.get(model.getID()) == null) {
    mpm.set(model.getID(), model);
  }
}

/**
 * Removes a message processing model from this message dispatcher.
 * @param model
  * a previously added MessageProcessingModel instance.
  */
public synchronized void removeMessageProcessingModel(MessageProcessingModel model) {
  mpm.set(model.getID(), null);
}

/**
 * Adds a transport mapping. When an outgoing message is processed where
 * no specific transport mapping has been specified, then the
 * message dispatcher will use the transport mapping
 * that supports the supplied address class of the target.
 * @param transport
  * a TransportMapping instance. If there is already another transport
  * mapping registered that supports the same address class, then
  * <code>transport</code> will be registered but not used for messages
  * without specific transport mapping.
 * @suppressWarnings("unchecked")
 */
@SuppressWarnings("unchecked")
public synchronized void addTransportMapping(TransportMapping transport) {
  List<TransportMapping> transports =
      transportMappings.get(transport.getSupportedAddressClass());
  if (transports == null) {
    transports = new LinkedList<TransportMapping>();
    transportMappings.put(transport.getSupportedAddressClass(), transports);
  }
  transports.add(transport);
}

/**
 * Removes a transport mapping.
 * @param transport
  * a previously added TransportMapping instance.
 * @return
public TransportMapping removeTransportMapping(TransportMapping transport) {
    List<? extends TransportMapping> tm = transportMappings.remove(transport.getSupportedAddressClass());
    if (tm != null) {
        if (tm.remove(transport)) {
            return transport;
        }
    }
    return null;
}

/**
 * Gets a collection of all registered transport mappings.
 * @return
 *    a Collection instance.
 */
public Collection<TransportMapping> getTransportMappings() {
    ArrayList<TransportMapping> l = new ArrayList<TransportMapping>(transportMappings.size());
    synchronized (transportMappings) {
        for (Iterator<List<TransportMapping>> it = transportMappings.values().iterator(); it.hasNext();) {
            List<? extends TransportMapping> tm = it.next();
            l.addAll(tm);
        }
    }
    return l;
}

public synchronized int getNextRequestID() {
    int nextID = nextTransactionID++;
    if (nextID <= 0) {
        nextID = 1;
        nextTransactionID = 2;
    }
    return nextID;
}

protected PduHandle createPduHandle() {
    return new PduHandle(getNextRequestID());
}

/**
 * Sends a message using the <code>TransportMapping</code> that has been
 * assigned for the supplied address type.
 * @param transport
* the transport mapping to be used to send the message.
* @param destAddress
* the transport address where to send the message. The
* <code>destAddress</code> must be compatible with the supplied
* <code>transport</code>.
* @param message
* the SNMP message to send.
* @throws IOException
* if an I/O error occurred while sending the message or if there is
* no transport mapping defined for the supplied address type.
*/
@SuppressWarnings("unchecked")
protected void sendMessage(TransportMapping transport,
Address destAddress, byte[] message,
TransportStateReference tmStateReference)
throws IOException
{
if (transport != null) {
if (destAddress instanceof GenericAddress) {
    transport.sendMessage(((GenericAddress)destAddress).getAddress(), message, tmStateReference);
} else {
    transport.sendMessage(destAddress, message, tmStateReference);
} }
else {
    String txt = "No transport mapping for address class: "+
    destAddress.getClass().getName()+"="+destAddress;
    logger.error(txt);
    throw new IOException(txt);
}
}
/**
* Returns a transport mapping that can handle the supplied address.
* @param destAddress
* an Address instance.
* @return
* a <code>TransportMapping</code> instance that can be used to sent
* a SNMP message to <code>destAddress</code> or <code>null</code> if
* such a transport mapping does not exists.
* @since 1.6
*/
public TransportMapping getTransport(Address destAddress) {
Class addressClass = destAddress.getClass();
do {
    List<TransportMapping> l = transportMappings.get(addressClass);
...
if ((l != null) && (l.size() > 0)) {
    return l.get(0);
}
}
while ((addressClass = addressClass.getSuperclass()) != null);
return null;
}

/**
 * Actually decodes and dispatches an incoming SNMP message using the supplied
 * message processing model.
 *
 * @param sourceTransport
 *   a <code>TransportMapping</code> that matches the incomingAddress type.
 * @param mp
 *   a <code>MessageProcessingModel</code> to process the message.
 * @param incomingAddress
 *   the <code>Address</code> from the entity that sent this message.
 * @param wholeMessage
 *   the <code>BERInputStream</code> containing the SNMP message.
 * @param tmStateReference
 *   the transport model state reference as defined by RFC 5590.
 * @throws IOException
 *   if the message cannot be decoded.
 */
protected void dispatchMessage(TransportMapping sourceTransport,
        MessageProcessingModel mp,
        Address incomingAddress,
        BERInputStream wholeMessage,
        TransportStateReference tmStateReference) throws IOException {
    MutablePDU pdu = new MutablePDU();
    Integer32 messageProcessingModel = new Integer32();
    Integer32 securityModel = new Integer32();
    OctetString securityName = new OctetString();
    Integer32 securityLevel = new Integer32();
    PduHandle handle = createPduHandle();

    Integer32 maxSizeRespPDU =
        new Integer32(sourceTransport.getMaxInboundMessageSize());
    StatusInformation statusInfo = new StatusInformation();
    MutableStateReference mutableStateReference = new MutableStateReference();
    // add the transport mapping to the state reference to allow the MP to
    // return REPORTs on the same interface/port the message had been received.
    StateReference stateReference = new StateReference();
    stateReference.setTransportMapping(sourceTransport);
    stateReference.setAddress(incomingAddress);
mutableStateReference.setStateReference(stateReference);

int status = mp.prepareDataElements(this, incomingAddress, wholeMessage,
    tmStateReference,
    messageProcessingModel, securityModel,
    securityName, securityLevel, pdu,
    handle, maxSizeRespPDU, statusInfo,
    mutableStateReference);

if (mutableStateReference.getStateReference() != null) {
    // make sure transport mapping is set
    mutableStateReference.
        getStateReference().setTransportMapping(sourceTransport);
}

if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // dispatch it
    CommandResponderEvent e =
        new CommandResponderEvent(this,
            sourceTransport,
            incomingAddress,
            messageProcessingModel.getValue(),
            securityModel.getValue(),
            securityName.getValue(),
            securityLevel.getValue(),
            handle,
            pdu.getPdu(),
            maxSizeRespPDU.getValue(),
            mutableStateReference.getStateReference());
    fireProcessPdu(e);
} else {
    switch (status) {
        case SnmpConstants.SNMP_MP_UNSUPPORTED_SECURITY_MODEL:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_FAILURE:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_SECURITY_LEVEL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_SECURITY_NAME:
        case SnmpConstants.SNMPv3_USM_AUTHENTICATION_ERROR:
        case SnmpConstants.SNMPv3_USM_NOT_IN_TIME_WINDOW:
        case SnmpConstants.SNMPv3_USM_UNSUPPORTED_AUTHPROTOCOL:
        case SnmpConstants.SNMPv3_USM_UNKNOWN_ENGINEID:
        case SnmpConstants.SNMP_MP_WRONG_USER_NAME:
        case SnmpConstants.SNMPv3_TSM_INADEQUATE_SECURITY_LEVELS:
        case SnmpConstants.SNMP_MP_USM_ERROR: {
            AuthenticationFailureEvent event =
                new AuthenticationFailureEvent(this, incomingAddress,
                    sourceTransport, status,
                    wholeMessage);
            fireAuthenticationFailure(event);
            break;
    

public void processMessage(TransportMapping sourceTransport, 
    Address incomingAddress, 
    ByteBuffer wholeMessage, 
    TransportStateReference tmStateReference) {
    processMessage(sourceTransport, incomingAddress, 
        new BERInputStream(wholeMessage), 
        tmStateReference);
}

public void processMessage(TransportMapping sourceTransport, 
    Address incomingAddress, 
    BERInputStream wholeMessage, 
    TransportStateReference tmStateReference) {
    fireIncrementCounter(new CounterEvent(this, SnmpConstants.snmpInPkts));
    if (!wholeMessage.markSupported()) {
        String txt = "Message stream must support marks";
        logger.error(txt);
        throw new IllegalArgumentException(txt);
    }
    try {
        wholeMessage.mark(16);
        BER.MutableByte type = new BER.MutableByte();
        // decode header but do not check length here, because we do only decode
        // the first 16 bytes.
        BER.decodeHeader(wholeMessage, type, false);
        if (type.getValue() != BER.SEQUENCE) {
            logger.error("ASN.1 parse error (message is not a sequence)");
            CounterEvent event = new CounterEvent(this, 
                SnmpConstants.snmpInASNParseErrs);
            fireIncrementCounter(event);
        }
        Integer32 version = new Integer32();
        version.decodeBER(wholeMessage);
        MessageProcessingModel mp = getMessageProcessingModel(version.getValue());
        if (mp == null) {
            logger.warn("SNMP version "+version+" is not supported");
            CounterEvent event = new CounterEvent(this, 
                SnmpConstants.snmpInBadVersions);
            fireIncrementCounter(event);
        } else {
            // reset it
wholeMessage.reset();
// dispatch it
dispatchMessage(sourceTransport, mp, incomingAddress, wholeMessage, tmStateReference);
}
}
catch (IOException iox) {
iox.printStackTrace();
logger.warn(iox);
CounterEvent event =
    new CounterEvent(this, SnmpConstants.snmpInvalidMsgs);
fireIncrementCounter(event);
}
catch (Exception ex) {
logger.error(ex);
if (logger.isDebugEnabled()) {
    ex.printStackTrace();
}
if (SNMP4JSettings.isForwardRuntimeExceptions()) {
    throw new RuntimeException(ex);
}
}
catch (OutOfMemoryError oex) {
logger.error(oex);
if (SNMP4JSettings.isForwardRuntimeExceptions()) {
    throw oex;
}
}

public PduHandle sendPdu(Target target,
PDU pdu,
    boolean expectResponse) throws MessageException {
    return sendPdu(null, target, pdu, expectResponse);
}

public PduHandle sendPdu(TransportMapping transport,
    Target target,
PDU pdu,
    boolean expectResponse,
PduHandleCallback<PDU> pduHandleCallback)
    throws MessageException
{
    int messageProcessingModel = target.getVersion();
    Address transportAddress = target.getAddress();
    int securityModel = target.getSecurityModel();
    int securityLevel = target.getSecurityLevel();
    try {
        byte[] securityName = target.getSecurityName().getValue();
        // code here
    } catch (Exception e) {
        // error handling
    }
}
MessageProcessingModel mp =
    getMessageProcessingModel(messageProcessingModel);
if (mp == null) {
    throw new MessageException("Unsupported message processing model: "+
            messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
} 
if (!mp.isProtocolVersionSupported(messageProcessingModel)) {
    throw new MessageException("SNMP version "+messageProcessingModel+
            " is not supported "+
            messageProcessingModel,
            SnmpConstants.SNMP_MD_UNSUPPORTED_SNMP_VERSION);
} 
if (transport == null) { 
    transport = getTransport(transportAddress);
} 
if (transport == null) {
    throw new UnsupportedAddressClassException(
            "Unsupported address class (transport mapping): "+
            transportAddress.getClass().getName(),
            transportAddress.getClass());
} 
else if (pdu.isConfirmedPdu()) { 
    checkListening4ConfirmedPDU(pdu, target.getAddress(), transport);
}

// check if contextEngineID discovery is needed

// check PDU type
checkOutgoingMsg(transportAddress, messageProcessingModel, pdu);

// if request ID is == 0 then create one here, otherwise use the request
// ID because it may be a resent request.
PduHandle pduHandle;
Integer32 reqID = pdu.getRequestID();
if ((reqID == null) || (reqID.getValue() == 0) &
    (pdu.getType() != PDU.RESPONSE)) {
    pduHandle = createPduHandle();
} 
else {
    pduHandle = new PduHandle(pdu.getRequestID().getValue());
}

// assign request ID
if (pdu.getType() != PDU.V1TRAP) {
    pdu.setRequestID(new Integer32(pduHandle.getTransactionID()));
}
// parameters to receive
GenericAddress destAddress = new GenericAddress();

CertifiedIdentity certifiedIdentity = null;
if (target instanceof CertifiedIdentity) {
    certifiedIdentity = (CertifiedIdentity) target;
}
TransportStateReference tmStateReference =
    new TransportStateReference(
        transport,
        transportAddress,
        new OctetString(securityName),
        SecurityLevel.get(securityLevel),
        SecurityLevel.undefined,
        false, null, certifiedIdentity);

configureAuthoritativeEngineID(target, mp);
BEROutputStream outgoingMessage = new BEROutputStream();
int status = mp.prepareOutgoingMessage(
    transportAddress,
    transport.getMaxInboundMessageSize(),
    messageProcessingModel,
    securityModel,
    securityName,
    securityLevel,
    pdu,
    expectResponse,
    pduHandle,
    destAddress,
    outgoingMessage,
    tmStateReference);

if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // inform callback about PDU new handle
    if (pduHandleCallback != null) {
        pduHandleCallback.pduHandleAssigned(pduHandle, pdu);
    }
    byte[] messageBytes = outgoingMessage.getBuffer().array();
    sendMessage(transport, transportAddress, messageBytes, tmStateReference);
} else {
    throw new MessageException("Message processing model " +
        mp.getID() +" returned error: " +
        SnmpConstants.mpErrorMessage(status), status);
}
return pduHandle;
}
catch (IndexOutOfBoundsException iobex) {
    throw new MessageException("Unsupported message processing model: "

protected void configureAuthoritativeEngineID(Target target, MessageProcessingModel mp) {
    if ((target instanceof UserTarget) && (mp instanceof MPv3)) {
        UserTarget userTarget = (UserTarget) target;
        if ((userTarget.getAuthoritativeEngineID() != null) && (userTarget.getAuthoritativeEngineID().length > 0)) {
            ((MPv3) mp).addEngineID(target.getAddress(), new OctetString(userTarget.getAuthoritativeEngineID()));
        }
    }
}

private static void checkListening4ConfirmedPDU(PDU pdu, Address target, TransportMapping transport) {
    if ((transport != null) && (!transport.isListening())) {
        logger.warn("Sending confirmed PDU " + pdu + " to target " + target + " although transport mapping " + transport + " is not listening for a response");
    }
}

/**
 * Checks outgoing messages for consistency between PDU and target used.
 * @param transportAddress
 *    the target address.
 * @param messageProcessingModel
 *    the message processing model to be used.
 * @param pdu
 *    the PDU to be sent.
 * @throws MessageException
 *    if unrecoverable inconsistencies have been detected.
 */
protected void checkOutgoingMsg(Address transportAddress, int messageProcessingModel, PDU pdu)
throws MessageException
{
  if (checkOutgoingMsg) {
    if (messageProcessingModel == MessageProcessingModel.MPv1 || SNMP4JSettings.isNoGetBulk()) {
      if (pdu.getType() == PDU.GETBULK) {
        if (messageProcessingModel == MessageProcessingModel.MPv1) {
          logger.warn("Converting GETBULK PDU to GETNEXT for SNMPv1 target: " + transportAddress);
        } else {
          logger.info("Converting GETBULK PDU to GETNEXT for target: " + transportAddress);
        }
        pdu.setType(PDU.GETNEXT);
      } if (!pdu.instanceof PDUv1)) {
        pdu.setMaxRepetitions(1);
        pdu.setNonRepeaters(0);
      }
    }
  }
}

public int returnResponsePdu(int messageProcessingModel,
  int securityModel,
  byte[] securityName,
  int securityLevel,
  PDU pdu,
  int maxSizeResponseScopedPDU,
  StateReference stateReference,
  StatusInformation statusInformation)
  throws MessageException
{
  try {
    MessageProcessingModel mp =
      getMessageProcessingModel(messageProcessingModel);
    if (mp == null) {
      throw new MessageException("Unsupported message processing model: "+
        + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
    }
    TransportMapping transport = stateReference.getTransportMapping();
    if (transport == null) {
      transport = getTransport(stateReference.getAddress());
    }
    if (transport == null) {
      throw new MessageException("Unsupported address class (transport mapping): "+
        + stateReference.getAddress().getClass().getName(),
        SnmpConstants.SNMP_MD_UNSUPPORTED_ADDRESS_CLASS);
    }
    BEROoutputStream outgoingMessage = new BEROoutputStream();
int status = mp.prepareResponseMessage(messageProcessingModel,
        transport.getMaxInboundMessageSize(),
        securityModel,
        securityName, securityLevel, pdu,
        maxSizeResponseScopedPDU,
        stateReference,
        statusInformation,
        outgoingMessage);
if (status == SnmpConstants.SNMP_MP_OK) {
    TransportStateReference tmStateReference = null;
    if (stateReference.getSecurityStateReference() instanceof TsmSecurityStateReference) {
        tmStateReference = ((TsmSecurityStateReference)
            stateReference.getSecurityStateReference()).getTmStateReference();
    }
    sendMessage(transport,
            stateReference.getAddress(),
            outgoingMessage.getBuffer().array(),
            tmStateReference);
}
return status;
}
catch (ArrayIndexOutOfBoundsException aex) {
    throw new MessageException("Unsupported message processing model: ",
        messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
        aex);
}
catch (IOException iox) {
    throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}
}
public void releaseStateReference(int messageProcessingModel,
        PduHandle pduHandle) {
    MessageProcessingModel mp = getMessageProcessingModel(messageProcessingModel);
    if (mp == null) {
        throw new IllegalArgumentException("Unsupported message processing model: "+
            messageProcessingModel);
    }
    mp.releaseStateReference(pduHandle);
}
public synchronized void removeCommandResponder(CommandResponder l) {
    if (commandResponderListeners != null && commandResponderListeners.contains(l)) {
        commandResponderListeners.remove(l);
    }
}
public synchronized void addCommandResponder(CommandResponder l) {
}
if (commandResponderListeners == null) {
    commandResponderListeners = new Vector<CommandResponder>(2);
}
if (!commandResponderListeners.contains(l)) {
    commandResponderListeners.add(l);
}

/**
 * Fires a <code>CommandResponderEvent</code>. Listeners are called
 * in order of their registration until a listener has processed the
 * PDU successfully.
 * @param e
 * a <code>CommandResponderEvent</code> event.
 */
protected void fireProcessPdu(CommandResponderEvent e) {
    if (commandResponderListeners != null) {
        List<CommandResponder> listeners = commandResponderListeners;
        for (CommandResponder listener : listeners) {
            listener.processPdu(e);
            // if event is marked as processed the event is not forwarded to
            // remaining listeners
            if (e.isProcessed()) {
                return;
            }
        }
    }
}

/**
 * Gets the <code>MessageProcessingModel</code> for the supplied message
 * processing model ID.
 *
 * @param messageProcessingModel
 * a message processing model ID
 * (see { @link MessageProcessingModel#getId() }).
 * @return
 * a MessageProcessingModel instance if the ID is known, otherwise
 * <code>null</code>
 */
public MessageProcessingModel getMessageProcessingModel(int messageProcessingModel) {
    try {
        return mpm.get(messageProcessingModel);
    }
    catch (IndexOutOfBoundsException iobex) {
        return null;
    }
}
/**
 * Removes a <code>CounterListener</code>.
 * @param counterListener
 *    a previously added <code>CounterListener</code>.
 */
public synchronized void removeCounterListener(CounterListener counterListener) {
    if (counterListeners != null && counterListeners.contains(counterListener)) {
        counterListeners.remove(counterListener);
    }
}

/**
 * Adds a <code>CounterListener</code>.
 * @param counterListener
 *    a <code>CounterListener</code> that will be informed when a counter
 *    needs to incremented.
 */
public synchronized void addCounterListener(CounterListener counterListener) {
    if (counterListeners == null) {
        counterListeners = new Vector<CounterListener>(2);
    }
    if (!counterListeners.contains(counterListener)) {
        counterListeners.add(counterListener);
    }
}

/**
 * Fires a counter incrementation event.
 * @param event
 *    the <code>CounterEvent</code> containing the OID of the counter
 *    that needs to be incremented.
 */
protected void fireIncrementCounter(CounterEvent event) {
    if (counterListeners != null) {
        for (CounterListener cl : counterListeners) {
            cl.incrementCounter(event);
        }
    }
}

/**
 * Enables or disables the consistency checks for outgoing messages.
 * If the checks are enabled, then GETBULK messages sent to SNMPv1
 * targets will be converted to GETNEXT messages.
 * @p>
 * In general, if an automatically conversion is not possible, an
 * error is thrown when such a message is to be sent.
 */
The default is consistency checks enabled.

@checkOutgoingMsg
- if <code>true</code> outgoing messages are checked for consistency.
- Currently, only the PDU type will be checked against the used SNMP version. If <code>false</code>, no checks will be performed.

public void setCheckOutgoingMsg(boolean checkOutgoingMsg) {
    this.checkOutgoingMsg = checkOutgoingMsg;
}

**
- Returns whether consistency checks for outgoing messages are activated.
- @return
- if <code>true</code> outgoing messages are checked for consistency.
- If <code>false</code>, no checks are performed.

public boolean isCheckOutgoingMsg() {
    return checkOutgoingMsg;
}

**
- Adds a listener for authentication failure events caused by unauthenticated incoming messages.
- @param l
- the <code>AuthenticationFailureListener</code> to add.
- @since 1.5

public synchronized void addAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners == null) {
        authenticationFailureListeners = new Vector<AuthenticationFailureListener>(2);
    }
    if (!authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.add(l);
    }
}

/**
- Removes an <code>AuthenticationFailureListener</code>.
- @param l
- the <code>AuthenticationFailureListener</code> to remove.

public synchronized void removeAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners != null &&
        authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.remove(l);
    }
}
authenticationFailureListeners.remove(l);
}
}

/**
 * Fires an <code>AuthenticationFailureEvent</code> to all registered
 * listeners.
 * @param event
 *    the event to fire.
 */
protected void fireAuthenticationFailure(AuthenticationFailureEvent event) {
if (authenticationFailureListeners != null) {
    List<AuthenticationFailureListener> listeners = authenticationFailureListeners;
    for (AuthenticationFailureListener listener : listeners) {
        listener.authenticationFailure(event);
    }
}
}

public PduHandle sendPdu(TransportMapping transportMapping,
            Target target,
            PDU pdu,
            boolean expectResponse) throws MessageException {
    return sendPdu(transportMapping, target, pdu, expectResponse, null);
}


1.1075 snmp4j-agent 2.3.1

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package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;

import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 */
class InstantiationModelAwarePointcutAdvisorImpl
    implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

    private Advice instantiatedAdvice;

    private int declarationOrder;

    private String aspectName;
}
private Boolean isBeforeAdvice;

private Boolean isAfterAdvice;

public InstantiationModelAwarePointcutAdvisorImpl(AspectJAdvisorFactory af, AspectJExpressionPointcut ajexp, MetadataAwareAspectInstanceFactory aif, Method method, int declarationOrderInAspect, String aspectName) {
    this.declaredPointcut = ajexp;
    this.method = method;
    this.atAspectJAdvisorFactory = af;
    this.aspectInstanceFactory = aif;
    this.declarationOrder = declarationOrderInAspect;
    this.aspectName = aspectName;

    if (aif.getAspectMetadata().isLazilyInstantiated()) {
        // Static part of the pointcut is a lazy type.
        Pointcut preInstantiationPointcut =
            Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

        // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
        // If it’s not a dynamic pointcut, it may be optimized out
        // by the Spring AOP infrastructure after the first evaluation.
        this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
        this.lazy = true;
    } else {
        // A singleton aspect.
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
        this.pointcut = declaredPointcut;
        this.lazy = false;
    }
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
public Pointcut getPointcut() {
    return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of <code>true</code>
 * means here is that the aspect is not a SINGLETON.
 */
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
    return this.aspectInstanceFactory.getAspectMetadata();
}

/**
 * Lazily instantiate advice if necessary.
 */
public synchronized Advice getAdvice() {
    if (this.instantiatedAdvice == null) {
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    }
    return this.instantiatedAdvice;
}

public boolean isLazy() {
    return this.lazy;
}

public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(
            this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}

public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

public String getAspectName() {

return this.aspectName;
}

public int getDeclarationOrder() {
return this.declarationOrder;
}

public boolean isBeforeAdvice() {
if (this.isBeforeAdvice == null) {
      determineAdviceType();
}
return this.isBeforeAdvice;
}

public boolean isAfterAdvice() {
if (this.isAfterAdvice == null) {
      determineAdviceType();
}
return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
        AspectJAnnotation<?> aspectJAnnotation =
AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
if (aspectJAnnotation == null) {
this.isBeforeAdvice = false;
this.isAfterAdvice = false;
} else {
switch (aspectJAnnotation.getAnnotationType()) {
      case AtAfter:
      case AtAfterReturning:
      case AtAfterThrowing:
      this.isAfterAdvice = true;
      this.isBeforeAdvice = false;
      break;
      case AtAround:
      case AtPointcut:
this.isAfterAdvice = false;
this.isBeforeAdvice = false;
break;
      case AtBefore:
this.isAfterAdvice = false;
this.isBeforeAdvice = true;
@Override
public String toString() {
    return "InstantiationModelAwarePointcutAdvisor: expression [" + getDeclaredPointcut().getExpression() + "]; advice method [" + this.method + "]; perClauseKind=" + 
    this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
}

/**
 * Pointcut implementation that changes its behaviour when the advice is instantiated.
 * Note that this is a <i>dynamic</i> pointcut. Otherwise it might
 * be optimized out if it does not at first match statically.
 */
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

    private final AspectJExpressionPointcut declaredPointcut;
    private final Pointcut preInstantiationPointcut;
    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

    private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
            Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
        this.declaredPointcut = declaredPointcut;
        this.preInstantiationPointcut = preInstantiationPointcut;
        if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
            this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
        }
    }

    @Override
    public boolean matches(Method method, Class targetClass) {
        // We're either instantiated and matching on declared pointcut, or uninstantiated matching on either pointcut
        return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
               this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
    }

    public boolean matches(Method method, Class targetClass, Object[] args) {
        // This can match only on declared pointcut.
        return (isAspectMaterialized() &&& this.declaredPointcut.matches(method, targetClass));
    }
package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;

/**
 * Implementation of {@link MetadataAwareAspectInstanceFactory} that
 * creates a new instance of the specified aspect class for every
 * {@link #getAspectInstance()} call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */

public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

    private final AspectMetadata metadata;

    public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {

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        * limitations under the License.
        */

    }

    private boolean isAspectMaterialized() {
        return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
    }

}
super(aspectClass);
this.metadata = new AspectMetadata(aspectClass, aspectName);
}

public final AspectMetadata getAspectMetadata() {
return this.metadata;
}

/**
 * Determine a fallback order for the case that the aspect instance
 * does not express an instance-specific order through implementing
 * the { @link org.springframework.core.Ordered} interface.
 * <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
 * @param aspectClass the aspect class
 */
@Override
protected int getOrderForAspectClass(Class<?> aspectClass) {
Order order = aspectClass.getAnnotation(Order.class);
if (order != null) {
return order.value();
}
return Ordered.LOWEST_PRECEDENCE;
}

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 */

package org.springframework.aop.aspectj;

import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class aspectClass;

    public SimpleAspectInstanceFactory(Class aspectClass) {
        Assert.notNull(aspectClass, "Aspect class must not be null");
        this.aspectClass = aspectClass;
    }

    public final Class getAspectClass() {
        return this.aspectClass;
    }

    public final Object getAspectInstance() {
        try {
            return this.aspectClass.newInstance();
        } catch (InstantiationException ex) {
            throw new AopConfigException("Unable to instantiate aspect class "+ this.aspectClass.getName() + ", ex");
        } catch (IllegalAccessException ex) {
            throw new AopConfigException("Cannot access element class "+ this.aspectClass.getName() + ", ex");
        }
    }

    public ClassLoader getAspectClassLoader() {
        return this.aspectClass.getClassLoader();
    }

    public final Class getAspectClassLoader() {
        return this.aspectClass.getClassLoader();
    }

    /**
     * Determine the order for this factory's aspect instance,
     * either an instance-specific order expressed through implementing
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

protected int getOrderForAspectClass(Class<?> aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}

package org.springframework.aop.config;

import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.core.Ordered;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;
* Implementation of [@link AspectInstanceFactory] that locates the aspect from the
* [@link org.springframework.beans.factory.BeanFactory] using a configured bean name.
*  
* @author Rob Harrop  
* @author Juergen Hoeller  
* @since 2.0  
* /
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {

private String aspectBeanName;

private BeanFactory beanFactory;

/**
 * Set the name of the aspect bean. This is the bean that is returned when calling
 * [@link #getAspectInstance()].
 * /
public void setAspectBeanName(String aspectBeanName) {
    this.aspectBeanName = aspectBeanName;
}

public void setBeanFactory(BeanFactory beanFactory) {
    this.beanFactory = beanFactory;
    if (!StringUtils.hasText(this.aspectBeanName)) {
        throw new IllegalArgumentException("'aspectBeanName' is required");
    }
}

/**
 * Look up the aspect bean from the [@link BeanFactory] and returns it.
 * @see #setAspectBeanName
 * /
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

public ClassLoader getAspectClassLoader() {
    if (this.beanFactory instanceof ConfigurableBeanFactory) {
        return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
    }
    else {
        return ClassUtils.getDefaultClassLoader();
    }
}
public int getOrder() {
    if (this.beanFactory.isSingleton(this.aspectBeanName) &&
        this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
        return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;

/**
 * Simple AOP Alliance <code>MethodInterceptor</code> that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.
 *
 * Consider using <code>CustomizableTraceInterceptor</code> for more
 * advanced needs.
 *
 * @author Dmitriy Kopylenko
 * @author Juergen Hoeller
 * @since 1.2
 * @see CustomizableTraceInterceptor
 */
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

    /**
     * Create a new SimpleTraceInterceptor with a static logger.
     */

public SimpleTraceInterceptor() {
}

/**
 * Create a new SimpleTraceInterceptor with dynamic or static logger,
 * according to the given flag.
 * @param useDynamicLogger whether to use a dynamic logger or a static logger
 * @see #setUseDynamicLogger
 */
public SimpleTraceInterceptor(boolean useDynamicLogger) {
    setUseDynamicLogger(useDynamicLogger);
}

@Override
protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
    String invocationDescription = getInvocationDescription(invocation);
    logger.trace("Entering " + invocationDescription);
    try {
        Object rval = invocation.proceed();
        logger.trace("Exiting " + invocationDescription);
        return rval;
    } catch (Throwable ex) {
        logger.trace("Exception thrown in " + invocationDescription, ex);
        throw ex;
    }
}

/**
 * Return a description for the given method invocation.
 * @param invocation the invocation to describe
 * @return the description
 */
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method " + invocation.getMethod().getName() + " of class [" + invocation.getThis().getClass().getName() + "]";
}

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* /

package org.springframework.aop.target;

/**
 * Simple {@link org.springframework.aop.TargetSource} implementation,
 * freshly obtaining the specified target bean from its containing
 * Spring {@link org.springframework.beans.factory.BeanFactory}.
 * <p>Can obtain any kind of target bean: singleton, scoped, or prototype.
 * Typically used for scoped beans.
 * @author Juergen Hoeller
 * @since 2.0.3
 */
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

public Object getTarget() throws Exception {
    return getBeanFactory().getBean(getTargetBeanName());
}
}

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1.1108 spring-context-support

4.1.6.RELEASE

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1.1123 stream-combiner 0.0.4

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1.1124 stream-consume 0.1.0

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1.1125 stream-throttle 0.1.3

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1.1126 streamhtmlparser-jsilver 0.0.10.vaadin1

1.1127 Streaming API for XML 1.0-2
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1.0.1

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1.1157 tar-pack 3.1.2

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1.1158 tboot 1.9.5 :1.el7

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1.1159 tcpdump 4.0.0
3.20090921gitdf3cb4.2.el6
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1.1160 tcsh 6.17 :24.el6

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and other useful pieces of code. If I've left you out, please let me know !

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* SUCH DAMAGE.
*/
/
/*
* config.h -- configure various defines for tcs
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/**************************** System dependant compilation flags ****************************/
/
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX
/
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
*job control facilities.
*/
#undef POSIXJOBS
/*
  * VFORK This machine has a vfork().
  * It used to be that for job control to work, this define
  * was mandatory. This is not the case any more.
  * If you think you still need it, but you don't have vfork,
  * define this anyway and then do #define vfork fork.
  * I do this anyway on a Sun because of yellow pages brain damage,
  * [should not be needed under 4.1]
  * and on the iris4d cause SGI's fork is sufficiently "virtual"
  * that vfork isn't necessary. (Besides, SGI's vfork is weird).
  * Note that some machines eg. rs6000 have a vfork, but not
  * with the berkeley semantics, so we cannot use it there either.
  */
#define VFORK

/*
  * BSDJOBS You have BSD-style job control (both process groups and
  * a tty that deals correctly
  */
#define BSDJOBS

/*
  * BSDTIMES You have BSD-style process time stuff (like rusage)
  * This may or may not be true. For example, Apple Unix
  * (OREO) has BSDJOBS but not BSDTIMES.
  */
#define BSDTIMES

/*
  * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
  */
#define BSDLIMIT

/*
  * TERMIO You have struct termio instead of struct sgttyb.
  * This is usually the case for SYSV systems, where
  * BSD uses sgttyb. POSIX systems should define this
  * anyway, even though they use struct termios.
  */
#undef TERMIO

/*
  * SYSVREL Your machine is SYSV based (HPUX, A/UX)
  * NOTE: don't do this if you are on a Pyramid -- tcsh is
  * built in a BSD universe.
  * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
  * you are running. Or set it to 0 if you are not SYSV based
  */

1.1161 telnet 0.17 :64.el7

1.1162 texinfo 4.13a :8.el6
1.1162.1 Available under license :

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Version: 3.0.9
Release: 1

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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.

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabledash@gmail.com
//   https://github.com/inexorabledash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
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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.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
This License Agreement for Google App Engine (the "Agreement") is made and entered into by and between Google Inc., a Delaware corporation, with offices at 1600 Amphitheatre Parkway, Mountain View 94043 ("Google") and the business entity agreeing to these terms ("Customer"). This Agreement is effective as of the date Customer clicks the "I Accept" button below (the "Effective Date"). If you are accepting on behalf of Customer, you represent and warrant that: (i) if you have full legal authority to bind Customer to this Agreement; (ii) you have read and understand this Agreement; and (iii) you agree, on behalf of Customer, to this Agreement. If you do not have the legal authority to bind Customer, please do not click the "I Accept" button below. This Agreement governs Customer's access to and use of the Service.

1. Licenses.

1.1 From Google to Customer. Subject to this Agreement, Google grants to Customer a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to (a) use the Service, (b) integrate the Service into any Application and provide the Service, solely as integrated into the Application, to users of the Application and (c) use any Software provided by Google as part of the Service.

1.2 From Customer to Google. By submitting, posting, generating or displaying any Application and/or Customer Data on or through the Service, Customer gives Google a worldwide, non-sublicensable, non-transferable, non-exclusive, terminable, limited license to reproduce, adapt, modify, translate, publish, publicly perform, publicly display and distribute any Application and/or including Customer Data for the sole purpose of enabling Google to provide Customer with the Service in accordance with the Agreement.

Provision of the Service.

2.1 Console. Google will provide the Service to Customer. As part of receiving the Service, Customer will have access to the Admin Console, through which Customer may administer the Service.

2.2 Facilities and Data Transfer. All facilities used to store and process an Application and Customer Data will adhere to reasonable security standards no less protective than the security standards at facilities where Google processes and stores its own information of a similar type. Google has implemented at least industry standard systems and procedures to ensure the security and confidentiality of an Application and Customer Data, protect against anticipated threats or hazards to the security or integrity of an Application and Customer Data, and protect against unauthorized access to or use of an Application and
Customer Content. Google may process and store an Application and Customer Data in the United States or any other country in which Google or its agents maintain facilities. By using the Service, Customer consents to this processing and storage of an Application and Customer Data. The parties agree that Google is merely a data processor.

2.3 Data Storage Selection.

Data Storage. Customer may select via the Service whether the Core App Engine End User Data will be stored permanently, at rest, in either the United States or the European Union, and Google will store it accordingly ("App Engine Data Location Setting"). If no selection is made, Core App Engine End User Data will be stored permanently, at rest, in the United States.

Transient Storage. Core App Engine End User Data may be stored transiently or cached in any country in which Google or its agents maintain facilities before reaching permanent storage.

Limitations. No App Engine Data Location Setting will apply to Core App Engine End User Data copied in another location or used with other Google products and services (including any other Google Cloud Platform services). If so, the Core App Engine End User Data will be processed and stored pursuant to Section 2.2 of this Agreement.

2.4 Accounts. Customer must have an Account to use the Service, and is responsible for the information it provides to create the Account, the security of its passwords for the Account, and for any use of its Account. If Customer becomes aware of any unauthorized use of its password or its Account, Customer will notify Google as promptly as possible.

2.5 Privacy Policies. The Service is subject to Google’s Privacy Policy. Changes to the Privacy Policy will be made as stated in the applicable policy. In addition, Google is enrolled in the U.S. Department of Commerce Safe Harbor Program and will remain enrolled in this program or another replacement program (or will adopt a compliance solution which achieves compliance with the terms of Article 25 of Directive 95/46/EC) throughout the Term of the Agreement.

2.6 New Applications. Google may make new applications, tools, features or functionality available from time to time through the Service, the use of which may be contingent upon Customer’s agreement to additional terms.

2.7 Modifications.

To the Service. Subject to Section 9.4 (Termination for Convenience), Google may make commercially reasonable Updates to the Service from time to time. If Google makes a material change to the Service, Google will inform Customer, provided that Customer has subscribed with Google to be informed about such change.

To the Agreement. Google may make changes to this Agreement, including pricing from time to time. Unless otherwise noted by Google, material changes to
the Agreement will become effective 90 days after they are posted, except if the changes apply to new functionality in which case they will be effective immediately. If Customer does not agree to the revised Agreement, please stop using the Service. Google will post any modification to this Agreement to the Terms URL.

3. Payment Terms.

3.1 Free Quota. The Service is provided to Customer without charge up to the Fee Threshold.

3.2 Online Billing. Google will issue an electronic bill to Customer for all charges accrued above the Fee Threshold. Fees are solely based on Google's measurements of Customer's use of the Service, may include monthly fees, and Google's determination is final. For use above the Fee Threshold, Customer shall be responsible for all Fees up to the amount set in the Account and shall pay all Fees in U.S. Dollars or in such other currency as agreed to in writing by the parties. Customer shall pay all Fees in accordance with the payment terms in the Service FAQ.

3.3 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend your Account for any late payments.

3.4 Taxes. Customer is responsible for any Taxes, and Customer will pay Google for the Services without any reduction for Taxes. If Google is obligated to collect or pay Taxes, the Taxes will be invoiced to Customer, unless Customer provides Google with a timely and valid tax exemption certificate authorized by the appropriate taxing authority. In some states the sales tax is due on the total purchase price at the time of sale and must be invoiced and collected at the time of the sale. If Customer is required by law to withhold any Taxes from its payments to Google, Customer must provide Google with an official tax receipt or other appropriate documentation to support such withholding payments.

3.5 Invoice Disputes & Refunds. To the fullest extent permitted by law, Customer waives all claims relating to Fees unless claimed within sixty days after charged (this does not affect any Customer rights with its credit card issuer). Refunds (if any) are at the discretion of Google and will only be in the form of credit for the Service. Nothing in this Agreement obligates Google to extend credit to any party.


4.1 Compliance. Customer is solely responsible for its Applications and Customer Data, and for making sure its Applications or Customer Data comply with the Acceptable Use Policy. Google reserves the right to review the Application or Customer Data to ensure Customer's compliance with the Acceptable Use Policy. Customer is responsible for ensuring all End Users comply with Customer's obligations under the Agreement.
4.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Service. Customer will obtain and maintain any required consents from End Users to allow Customer's access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Service will be made available to a third party as part of Google providing the Service.

4.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract the source code of the Service or any component thereof (subject to Section 4.4 below); (b) use the Service for High Risk Activities; (c) sublicense, resell, or distribute the Service or any component thereof separate from any integrated Application; (d) use the Service to create, train, or improve (directly or indirectly) a substantially similar product or service, including any other machine translation engine; (e) create multiple Applications or Accounts to simulate or act as a single Application or Account (respectively) or otherwise access the Service in a manner intended to avoid incurring Fees; (f) use the Service to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls to or to receive calls from any public switched telephone network; or (g) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Customer acknowledges that the Service is not HIPAA compliant and Customer is solely responsible for any applicable compliance with HIPAA.

4.4 Open Source Components. Open source software licenses for components of the Service released under an open source license constitute separate written agreements. Open source software is listed in the Documentation. To the limited extent the open source software licenses expressly supersede this Agreement, the open source license instead governs Customer's agreement with Google for the specific included open source components of the Service, or use of the Service (as may be applicable).

4.5 Documentation. Google may provide Documentation for Customer's use of the Service. The Documentation may specify restrictions (e.g. attribution of HTML restrictions) on how the Applications may be built or the Service may be used and Customer agrees to comply with any such restrictions specified.

4.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat
infringers according to the process set out in the U.S. Digital Millennium Copyright Act. If Customer thinks somebody is violating Customer's or its End Users' copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at http://www.google.com/dmca.html.

4.7 Application and No Multiple Accounts, Bills. Any Application must have material value independent from the Services. Google has no obligation to provide multiple bills or Accounts to Customer under the Agreement.

5. Suspension and Removals.

5.1 Suspension/Removals. If Customer becomes aware that any Application or an End User's use of an Application, or Customer Data violates the Acceptable Use Policy, Customer will immediately suspend the Application, remove the applicable Customer Data, or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Google's request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Application, and/or disable the Account (as may be applicable) until such violation is corrected.

5.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending End User account, Application or the Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or terminate the Emergency Security Issue. If Google suspends an End User account or the Application or Account, for any reason, without prior notice to Customer, at Customer's request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.


6.1 Intellectual Property Rights. Except as expressly set forth herein, this Agreement does not grant either party any rights, implied or otherwise, to the other's content or any of the other's intellectual property. As between the parties, Customer owns all Intellectual Property Rights in any Application and Customer Content, and Google owns all Intellectual Property Rights in the Service.

6.2 Brand Features Limitation. If Customer wants to display Google Brand Features in connection with its use of the Service, Customer must obtain written permission from Google through process specified in the Trademark Guidelines. For the sole purpose of providing the Service, Customer permits Google to display any Brand Features that may appear in its Application. Any use of a party's Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other party's right to use its Brand Features pursuant to this Agreement with written notice to the other and a reasonable period to stop the use.

7. Technical Support Service
7.1 By Customer. Customer is responsible for technical support of its Application.

7.2 Deprecation Policy.

Google will announce if we intend to discontinue or make backwards incompatible changes to this API or Service. We will use commercially reasonable efforts to continue to operate that Service without these changes until the later of: (i) one year after the announcement or (ii) April 20, 2015, unless (as Google determines in its reasonable good faith judgment):

required by law or third party relationship (including if there is a change in applicable law or relationship), or
doing so could create a security risk or substantial economic or material technical burden.

This Deprecation Policy doesn't apply to versions, features, and functionality labeled as "experimental."

8. Confidential Information.

8.1 Obligations. The recipient of the other party's Confidential Information will not disclose the Confidential Information, except to Affiliates, employees, agents, or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential. The recipient may also disclose Confidential Information when required by law after giving reasonable notice to the discloser if allowed by law. The recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii) above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to all third party requests concerning its use and its End Users' use of the Services.

9. Term and Termination.

9.1 Agreement Term. The license granted in this Agreement will remain in effect, unless terminated earlier as set forth in this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach
if: (i) the other party is in material breach of the Agreement and fails to cure that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches.

9.3 Termination for Inactivity. Google reserves the right to terminate the Service for inactivity, if, for a period exceeding ninety days, Customer (a) has failed to access the Admin Console, (b) an Application has not served any requests, and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Service at any time. Customer may terminate this Agreement for convenience at any time on prior written notice and upon termination, must cease use of the Service. Google may terminate this Agreement for its convenience at any time without liability to Customer. Subject to Section 7.2, Google may discontinue the Service or any portion or feature for any reason at any time without liability to Customer.

9.5 Effects of Termination. If the Agreement expires or is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees (including Taxes) owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.

10. Publicity.

Customer is permitted to state publicly that it is a customer of the Service, consistent with the Trademark Guidelines. Customer agrees that Google may include Customer's name or Brand Features in a list of Google customers, online or promotional materials. Customer also agrees that Google may verbally reference Customer as a customer of the Google products or services that are the subject of this Agreement. This section is subject to the "Brand Features Limitation" section of the Agreement. For clarification, neither party needs to seek approval from the other if the party is repeating a public statement that is substantially similar to a public statement that has been previously approved.

11. Representations.

Each party represents that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Service, as applicable. Google warrants it will provide the Service in accordance with the applicable SLA.

12. Disclaimer.

EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE DOES NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER
EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT.

GOOGLE IS NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CONTENT AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICE. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION AND CUSTOMER CONTENT. GOOGLE DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE OR THE SERVICE WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICE ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTEND PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTEND PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIER'S, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a party's Intellectual Property Rights by the other party, or indemnification obligations.


14.1 By Customer. Customer will indemnify, defend, and hold harmless Google from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim: (i) regarding any Application or Customer Content; (ii) that Customer Brand Features infringe or misappropriate any patent, copyright, trade secret or trademark of a third party; or (iii) regarding Customer's, or its End Users', use of the Service in violation of the Acceptable Use Policy.

14.2 By Google. Google will indemnify, defend, and hold harmless Customer from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim that Google's technology used to provide the Service (excluding any open source software) or any Google Brand Feature infringes or misappropriates any patent, copyright, trade secret or trademark of such third party. Notwithstanding the foregoing, in no event shall Google have any obligations or liability under this Section arising from: (i) use of any Service or Google Brand Features in a modified form or in combination with materials not furnished by Google, and (ii) any Customer Content.
14.3 Possible Infringement.

Repair, Replace, or Modify. If Google reasonably believes the Service infringes a third party's Intellectual Property Rights, then Google will: (a) obtain the right for Customer, at Google's expense, to continue using the Service; (b) provide a non-infringing functionally equivalent replacement; or (c) modify the Service so that it no longer infringes.

Suspension or Termination. If Google does not believe the foregoing options are commercially reasonable, then Google may suspend or terminate Customer's use of the impacted Service.

14.4 General. As a condition to indemnification for a claim, the party seeking indemnification must promptly notify the other party of the claim in writing and cooperate with the other party in defending the claim. The indemnifying party has full control and authority over the defense, except that: (a) any settlement requiring the party seeking indemnification to admit liability or to pay any money will require that party's prior written consent, such consent not to be unreasonably withheld or delayed; and (b) the other party may join in the defense with its own counsel at its own expense. Notwithstanding the foregoing, if the indemnified party settles without the prior written consent of the indemnifying party, the indemnifying party has no obligation of contribution.

THE INDEMNITIES ABOVE ARE THE ONLY REMEDY UNDER THIS AGREEMENT FOR VIOLATION OF A THIRD PARTY'S INTELLECTUAL PROPERTY RIGHTS.

15. Government Purposes (applicable to United States government customers only).

The Service was developed solely at private expense and is commercial computer software and related documentation within the meaning of the applicable civilian and military Federal acquisition regulations and any supplements thereto. If the user of the Service is an agency, department, employee, or other entity of the United States Government, under FAR 12.212 and DFARS 227.7202, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Service, including technical data or manuals, is governed by the terms and conditions contained in this Agreement, which is Google's standard commercial license agreement.


16.1 Notices. All notices must be in writing and addressed to the other party's legal department and primary point of contact. The email address for notices being sent to Google's Legal Department is legal-notices@google.com. Notice will be treated as given: (a) on receipt as verified by written automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of
the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party's ability to seek equitable relief.

16.10 Governing Law.

For City, County, and State Government Entities. If Customer is a city, county or state government entity, then the parties agree to remain silent regarding governing law and venue.

For Federal Government Entities. If Customer is a federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA’S CONFLICT OF LAWS RULES) WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE, THE PARTIES CONSENT TO PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE COURTS IN SANTA CLARA COUNTY, CALIFORNIA.

For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATE’S CONFLICT OF LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF SANTA CLARA COUNTY, CALIFORNIA, USA; THE PARTIES CONSENT TO PERSONAL JURISDICTION IN THOSE COURTS.
16.11 Amendments. Any amendment must be in writing, signed by both parties, and expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 6.1 (Intellectual Property Rights), 8 (Confidential Information), 9.5 (Effects of Termination), 13 (Limitation of Liability), 14 (Indemnification) and 16 (Miscellaneous).

16.13 Entire Agreement. This Agreement supersedes all other agreements between the parties relating to its subject matter. In entering into this Agreement, neither party has relied on, and neither party will have any right remedy based on, any statement, representation or warranty (whether made negligently or innocently), except those expressly set out in this Agreement. The terms located at a URL referenced in this Agreement and the Documentation are hereby incorporated by this reference. After the Effective Date, Google may provide Customer with an updated URL in place of any URL in this Agreement.

16.14 Interpretation of Conflicting Terms. If there is a conflict among the documents that make up this Agreement, the documents will control in the following order: the Agreement, and the terms located at any URL.

16.15 Counterparts. The parties may execute this Agreement in counterparts, including facsimile, PDF and other electronic copies, which taken together will constitute one instrument.

16.16 Definitions.


"Account" means Customer's Google account (either gmail.com address or an Email address provided under the "Google Apps" product line); subject to those terms of service, as may be applicable.

"Admin Console" means the online tool provided by Google to Customer for administering the Service.

"Affiliate" means any entity that directly or indirectly controls, is controlled by, or is under common control with a party.

"Application(s)" means any web application Customer creates using the Service, including any source code written by Customer to be used with the Service.

"Brand Features" means the trade names, trademarks, service marks, logos, domain names, and other distinctive brand features of each party, respectively, as secured by such party from time to time.

"Confidential Information" means information that one party (or an Affiliate) discloses to the other party under this Agreement, and which is marked as confidential or would normally under the circumstances be considered confidential information. It does not include information that the recipient already rightfully knew, that becomes public through no fault of the recipient,
that was independently developed by the recipient, or that was lawfully given to
the recipient by a third party. Customer Data is considered Customer's
Confidential Information.

"Control" means control of greater than fifty percent of the voting rights
or equity interests of a party.

"Core App Engine End User Data" means content provided through the use of an
Application running on Google App Engine, by those End Users who are not acting
as Developer End Users (and information related to those End Users stored by the
Application), but excluding authentication information for those End Users' Google accounts.

"Customer Data" means content provided, transmitted or displayed via the
Service by Customer, or its End Users; but excluding any data provided as part
of the Account.

"Documentation" means the Google documentation in the form generally made
available by Google to its customers for use with the Service, as may be found
here: https://developers.google.com/appengine/docs or such other URL as Google
may provide.

"Emergency Security Issue" means either: (a) Customer's or its End User's
use of the Service in violation of the Acceptable Use Policy, which could
disrupt: (i) the Service; (ii) other Customers' or its End Users' use of the
Service; or (iii) the Google network or servers used to provide the Service; or
(b) unauthorized third party access to the Service.

"End Users" means the individuals Customer permits to use the Application.

"Export Control Laws" means all applicable export and re-export control laws
and regulations, including the Export Administration Regulations ("EAR")
maintained by the U.S. Department of Commerce, trade and economic sanctions
maintained by the Treasury Department's Office of Foreign Assets Control, and
the International Traffic in Arms Regulations ("ITAR") maintained by the
Department of State.

"Fee Threshold" means the threshold (as may be updated from time to time),
which is more fully described here:

"Fees" means the applicable fees for the Service and any applicable Taxes as

"High Risk Activities" means uses such as the operation of nuclear
facilities, air traffic control, or life support systems, where the use or
failure of the Service could lead to death, personal injury, or environmental
damage.

"HIPAA" means the Health Insurance Portability and Accountability Act of
1996 as it may be amended from time to time, and any regulations issued
thereunder.

"Intellectual Property Rights" means current and future worldwide rights
under patent law, copyright law, trade secret law, trademark law, moral rights
law, and other similar rights.

"Legal Process" means a request for disclosure of data made pursuant to law,
governmental regulation, court order, subpoena, warrant, governmental regulatory
or agency request, or other valid legal authority, legal procedure, or similar
process.
"Privacy Policy" means Google’s privacy policy located at: https://www.google.com/privacypolicy.html or such other URL as Google may provide.

"Protected Health Information" means the definition on 45 CFR 160.103, limited to the information created or received by a business associate from on or behalf of a covered entity.

"Service" means the Google App Engine Service as more fully described here: https://developers.google.com/appengine/ or such other URL as Google may provide. The APIs provided under the Service are listed here: https://developers.google.com/appengine/appengine_services or such other URL as Google may provide.

"Service FAQ” means those FAQs more fully described here: https://developers.google.com/appengine/kb or such other URL as Google may provide.

Service Level Agreement or SLA means the service level agreement then in effect for the Service available at the following URL: https://developers.google.com/appengine/sla or such other URL as Google may provide.

"Software” means any downloadable tools, software development kits or other such proprietary computer software provided by Google in connection with the Service, which may be downloaded by Customer, and any updates Google may make to such Software from time to time.

"Taxes“ means any duties, customs fees, or taxes (other than Google's income tax) associated with the purchase of the Service, including any related penalties or interest.

"Terms URL’ means the following URL: https://developers.google.com/appengine/terms or such other URL as Google may provide.

"Third Party Request” means a request from a third party for records relating to an End User's use of the Services. Third Party Requests can be a lawful search warrant, court order, subpoena, other valid legal order, or written consent from the End User permitting the disclosure.

"Trademark Guidelines” means Google's Guidelines for Third Party Use of Google Brand Features, located at the following URL: http://www.google.com/permissions/guidelines.html or such other URL as Google may provide.

"Updates“ means the periodic software updates provided by Google to Customer from time to time. Updates are designed to improve, enhance and further develop the Service and may take the form of bug fixes, enhanced functions, new software modules and completely new versions.

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Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

ICU License - ICU 1.8.1 and later

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the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

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organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
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damages, including, without limitation, general, special, incidental
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with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter. Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program. The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
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grants independently of ICOT any specific warranty to the user in
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above as far as the program is concerned.

------------COPYING.ipadic-----END------------------------------------

3. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its
time zone support. The ownership of the TZ database is explained in BCP 175:
Procedure for Maintaining the Time Zone Database section 7.

7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF
document. Rather it is a pre-existing and regularly updated work
that is in the public domain, and is intended to remain in the public
domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply
to the TZ Database or contributions that individuals make to it.
Should any claims be made and substantiated against the TZ Database,
the organization that is providing the IANA Considerations defined in this RFC, under the memorandum of understanding with the IETF, currently ICANN, may act in accordance with all competent court orders. No ownership claims will be made by ICANN or the IETF Trust on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.

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UglifyJS
https://github.com/mishoo/UglifyJS

Note that UglifyJS is shipped with WebKit Web Inspector.

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coffee-script 1.2.0 via npmjs.org
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qs 0.4.2 via npmjs.org
https://github.com/visionmedia/node-querystring
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W3C XML Schema defined in the Web Services Description (WSDL) Version 2.0 Adjuncts specification
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1.1260 woden-impl-dom 1.0M9

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1.1272 wstx-asl 3.2.9

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2000-05-05

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1.1288 xmlhttprequest 1.5.0

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Eric Kidd developed the original Xmlrpc-c in 2000 and maintained it up through June 2001.

Bryan Henderson took over as maintainer in October 2004.

Xmlrpc-c contains (and relies on for some server functions) a derivation of the Abyss web server by Moez Mahfoudh.

Xmlrpc-c contains (and relies on) a derivation of the Expat XML parser, written by James Clark.

The base64 code was derived from what Jack Jansen developed for Python.

For more history, including credits for more minor contributions, see the HISTORY file.

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1.1291 XMLSchema 1.4.7

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1.1303 yargs 3.29.0
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1.1304 yavijava 6.0.03

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1.1305 yeast 0.1.2

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1.1307 zope.interface 4.0.5

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