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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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1.8 pcre 8.39 12
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1.9 pprof v0.0.0-20181206194817-3ea8567a2e57

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_accept_sec_context.c
```
class="n">g_compare_name</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_context_time</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_delete_sec_context</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_dsp_name</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_dsp_status</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_dup_name</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_exp_sec_context</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_export_name</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_glue</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_imp_name</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_imp_sec_context</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_init_sec_context</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_initialize</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_context</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_cred</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names</class="n">.c
<class="n">lib</class="n">/gssapi</class="n">/mechglue</class="n">/g_inquire_names
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- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.c`
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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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.. parsed-literal::

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

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HAS_SOURCE: true,
SOURCENAME_SUFFIX: '.txt'
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* (.*)\*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != '':
            code_seen = True
        ln += 1
for fname in sys.argv[1::]
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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

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   :hidden:

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1.36 commons-beanutils 1.8.3

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1.38 certifi 2018.8.13

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.39 x-text v0.3.5

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1.41 pprof v0.0.0-20200229191704-1ebb73c60ed3

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1.42 jasper-reports 4.5.0

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1.45 qemu 2.4.0

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*      @(#)mman.h     8.2 (Berkeley) 1/9/95

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800 /* page to but do not sync underlying file */
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*    @(#)mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT       0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK         0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*      @(#)mman.h     8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT    0x0080  /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND    0x0100  /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED    0x0400  /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK    0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

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# Default configuration for sparc-bsd-user

/*      $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/*      $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $      */
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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3  /* No such process */
#define TARGET_EINTR 4  /* Interrupted system call */
#define TARGET_EIO 5   /* Input/output error */
#define TARGET_ENXIO 6  /* Device not configured */
#define TARGET_E2BIG 7  /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9  /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDeadLK 11 /* Resource deadlock avoided */

/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENOFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_ERFS 30 /* Read-only file system */
#define TARGET_EMFILE 31 /* Too many open files */
#define TARGET EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET EINPROGRESS 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET EPROTO 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
/* Open Source used in kASA v1.1 */

#define TARGET_EPROTONOSUPPORT 43 */ Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 */ Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */

#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGRAMMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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\{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(\%x)\", NULL, NULL \},
\{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL \},
\{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL \}.
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ifndef TOP
  TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
  SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
  for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
  for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
# Default configuration forsparc64-bsd-user
  # ****************************************************************************/
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  # *
  # * Contributors:
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  # ****************************************************************************/
ifndef TOP
  TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -L/include -Wa,-mregnames
Open Source Used In kASA v1.1  547

#ifndef -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I./include -I/x86emu \
-I$(TOP)/clients/net-snker/include -I$(ROOTDIR)/include \
-I$(ROOTDIR)/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $(X86EMU_OBJS)
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 * *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp *
 */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup         41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 4
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mknod 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_getfh 155
#define TARGET_OPENBSD_NR_getsv 155
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_rmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mmap 203
#define TARGET_OPENBSD_NR_mlock 204
#define TARGET_OPENBSD_NR_munlock 205
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioct 208
#define TARGET_OPENBSD_NR_semg 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR__setugid 253
#define TARGET_OPENBSD_NR___lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_pread 267
#define TARGET_OPENBSD_NR_pwrite 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlock 271
#define TARGET_OPENBSD_NR_munlock 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_setgid 288
#define TARGET_OPENBSD_NR_setresuid 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR___semctl 296
#define TARGET_OPENBSD_NR___semctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309
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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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# Default configuration for x86_64-bsd-user

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Ty Coon, President of Vice

That's all there is to it!
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

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#define TARGET_NETBSD_NR_fchdir 13
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/
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete exec */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */

#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_ioctl 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 121
#define TARGET_FREEBSD_NR_fchown 123
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_sem.sysys 169
#define TARGET_FREEBSD_NR_ms.sysys 170
#define TARGET_FREEBSD_NR_s.shm.sys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgset 224
#define TARGET_FREEBSD_NR_msgset 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrecv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctld 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmat 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmap 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_fd 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_fd 359
#define TARGET_FREEBSD_NR_aio_waitcomplete 360
#define TARGET_FREEBSD_NR_getresuid 361
#define TARGET_FREEBSD_NR_getresgid 362
#define TARGET_FREEBSD_NR_kqueue 363
#define TARGET_FREEBSD_NR_kevent 364
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 375
#define TARGET_FREEBSD_NR_afs3_syscall 376
#define TARGET_FREEBSD_NR_nmount 377
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408  
#define TARGET_FREEBSD_NR___mac_get_pid 409  
#define TARGET_FREEBSD_NR___mac_get_link 410  
#define TARGET_FREEBSD_NR___mac_set_link 411  
#define TARGET_FREEBSD_NR_extattr_set_link 412  
#define TARGET_FREEBSD_NR_extattr_get_link 413  
#define TARGET_FREEBSD_NR_extattr_delete_link 414  
#define TARGET_FREEBSD_NR___mac_execlp 415  
#define TARGET_FREEBSD_NR___mac_execve 415  
#define TARGET_FREEBSD_NR__sigaction 416  
#define TARGET_FREEBSD_NR_sigreturn 417  
#define TARGET_FREEBSD_NR_getcontext 421  
#define TARGET_FREEBSD_NR_setcontext 422  
#define TARGET_FREEBSD_NR_swapcontext 423  
#define TARGET_FREEBSD_NR_swapoff 424  
#define TARGET_FREEBSD_NR___acl_get_link 425  
#define TARGET_FREEBSD_NR___acl_set_link 426  
#define TARGET_FREEBSD_NR___acl_delete_link 427  
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428  
#define TARGET_FREEBSD_NR__sigwait 429  
#define TARGET_FREEBSD_NR_thr_create 430  
#define TARGET_FREEBSD_NR_thr_exit 431  
#define TARGET_FREEBSD_NR_thr_self 432  
#define TARGET_FREEBSD_NR_thr_kill 433  
#define TARGET_FREEBSD_NR___umtx_lock 434  
#define TARGET_FREEBSD_NR___umtx_unlock 435  
#define TARGET_FREEBSD_NR_jail_attach 436  
#define TARGET_FREEBSD_NR_extattr_list_fd 437  
#define TARGET_FREEBSD_NR_extattr_list_file 438  
#define TARGET_FREEBSD_NR_extattr_list_link 439  
#define TARGET_FREEBSD_NR_ksem_timedwait 441  
#define TARGET_FREEBSD_NR_thr_suspend 442  
#define TARGET_FREEBSD_NR_thr_wake 443  
#define TARGET_FREEBSD_NR_kldunloadf 444  
#define TARGET_FREEBSD_NR_audit 445  
#define TARGET_FREEBSD_NR_audition 446  
#define TARGET_FREEBSD_NR_getauid 447  
#define TARGET_FREEBSD_NR_setauid 448  
#define TARGET_FREEBSD_NR_getaudit 449  
#define TARGET_FREEBSD_NR_setaudit 450  
#define TARGET_FREEBSD_NR_getaudit_addr 451  
#define TARGET_FREEBSD_NR_setaudit_addr 452  
#define TARGET_FREEBSD_NR_auditctl 453  
#define TARGET_FREEBSD_NR___umtx_op 454  
#define TARGET_FREEBSD_NR_thr_new 455  
#define TARGET_FREEBSD_NR_sigqueue 456  
#define TARGET_FREEBSD_NR_kmq_open 457  
#define TARGET_FREEBSD_NR_kmq_setattr 458  
#define TARGET_FREEBSD_NR_kmq_timedreceive 459  

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#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_openat 498
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semct1 510
#define TARGET_FREEBSD_NR_msgctl 511
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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-- Wolfgang Denk

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
if (DEBUG.Decode() && !DEBUG.Decode_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
}
@@ -185,7 +189,7 @@
for (i=0; i < M.x86.enc_pos; i++) {
    sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops2.c	20 Mar 2008 15:48:34 -0000	1.3
@@ -149,8 +149,69 @@
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = (u16)target;
    if (cond) {
        DECODE_CLEAR_SEGOVR();
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
    }
}
+ REMARKS:
+ Handles opcode 0x0f,0xC8-0xCF
+******************************************************************************************
+s32 x86emu_bswap(s32 reg)
+{
+    // perform the byte swap
+    s32 temp = reg;
+    reg = (temp & 0xFF000000) >> 24;
+    reg |= (temp & 0xFF0000) >> 8;
+    reg |= (temp & 0xFF00) << 8;
+    reg |= (temp & 0xFF) << 24;
+    return reg;
+}
+void x86emuOp2_bswap(u8 op2) 
+
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+    DECODE_PRINTF("EAX\n");
+    M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+    break;
+ case 0xc9:
+    DECODE_PRINTF("ECX\n");
+    M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+    break;
+ case 0xca:
+    DECODE_PRINTF("EDX\n");
+    M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+    break;
+ case 0xcb:
+    DECODE_PRINTF("EBX\n");
+    M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+    break;
+ case 0xcc:
+    DECODE_PRINTF("ESP\n");
+    M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+    break;
+ case 0xcd:
+    DECODE_PRINTF("EBP\n");
+    M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+    break;
+ case 0xce:
+    DECODE_PRINTF("ESI\n");
+    M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+    break;
+ case 0xcf:
+    DECODE_PRINTF("EDI\n");
+    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+    break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ 
+     push_long(imm);
+ } else {
+     push_word(imm);
+ }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (cond)
+ if (cond) {
+     M.x86.R_IP = target;
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
 DECODE_CLEAR_SEGOVR();
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    +count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
    +M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    +count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
    +M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
                if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
                if (M.x86.intr & INTR_HALTED)
                    break;
            }
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }

    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-     /* move them until CX is ZERO. */
-     count = M.x86.R_CX;
+     /* move them until (E)CX is ZERO. */
+     count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+     M.x86.R_CX = 0;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;
+     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+     break;
}
DECODE_CLEAR_SEGOVR();
inc = 1;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
while (M.x86.R_CX != 0) {
    M.x86.R_CX -= 1;
}

if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX -= 1;
} else {
    M.x86.R_CX -= 1;
}
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;          /* zero flag set means equal */
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    while (M.x86.R_CX != 0) {
        M.x86.R_CX -= 1;
    }
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        M.x86.R_CX -= 1;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX -= 1;
    } else {
        M.x86.R_CX -= 1;
    }
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
        }
        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX -= 1;
        } else {
            M.x86.R_CX -= 1;
        }
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;          /* zero flag set means equal */
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
    } else {
        TRACE_AND_STEP();
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX -= 1;
    } else {
        M.x86.R_CX -= 1;
    }
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
    } else {
        TRACE_AND_STEP();
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX -= 1;
    } else {
        M.x86.R_CX -= 1;
    }
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
    } else {
        TRACE_AND_STEP();
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX -= 1;
    } else {
        M.x86.R_CX -= 1;
    }
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
-        /* move them until (E)CX is ZERO. */
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
DECODE_PRINTF("RET\u");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */

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+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
+ M.x86.R_IP = ip;
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
@@ -4041,8 +4106,11 @@
 ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
 M.x86.R_IP = ip;
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
@@ -4062,8 +4130,11 @@
 ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &
 ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
+ M.x86.R_IP = ip;
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
@@ -4085,8 +4156,10 @@
 target = (u16)(M.x86.R_IP + offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
+ M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%04x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,12 +4433,14 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+     M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +5093,14 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REP;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+     M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
    case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
   TRACE_AND_STEP();
   M.x86.R_IP = destval;
   break;
   case 5: /* jmp far ptr ... */
   destval = fetch_data_word(destoffset);
   destval2 = fetch_data_word(destoffset + 2);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = destval;
   M.x86.R_CS = destval2;

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-   s64 res = (s64)d * (s64)s;
+   s64 res = (s64)(s32)d * (s64)(s32)s;

     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
 #ifdef __HAS_LONG_LONG__
-   u64 res = (u32)M.x86.R_EAX * (u32)s;
+   u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
     if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
-   /* in until CX is ZERO. */
-   u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+   /* in until (E)CX is ZERO. */
+   u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
      M.x86.R_ECX : M.x86.R_CX);
-   while (count--) {

Open Source Used In kASA v1.1 673
single_in(size);
M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_out(size);
    M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ @ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);
    -return inb(addr);
    +return 0;
}

/***************************************************************************/
@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
    -return inw(addr);
    +return 0;
}

/***************************************************************************/
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
    -return inl(addr);
    +return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);
    -outl(val, addr);
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#define DEBUG 0
#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        	(M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     	(M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() 	(M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           	(M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     	(M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        	0
#define DEBUG_TRACECALL()     	0
#define DEBUG_TRACECALLREGS() 	0
+define DEBUG_TRACEJMP()     	0
+define DEBUG_TRACEJMPREGS() 	0
#define DEBUG_SYS()           	0
#define DEBUG_MEM_TRACE()     	0
#define DEBUG_IO_TRACE()      	0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     

return;
}

void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
if (DEBUG_TRACECALL())
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
    x86emu_dump_regs();
if (DEBUG_TRACECALL())
-    printk("%04x:%04x: %s
",u,v,n);
+    printk("%04x:%04x: RET %s %04x:%04x
", u, v, s, w, x);
+# define JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS())
+      x86emu_dump_regs();
+   if (DEBUG_TRACEJMP())
+      printk("%04x:%04x: JMP %s%04x:%04x
", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif
#endif DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE   0x00000100
 #define SYSMODE_PREFIX_DATA    0x00000200
 #define SYSMODE_PREFIX_ADDR    0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
 SYSMODE_SEGOVR_GS |
 SYSMODE_SEGOVR_SS |
 SYSMODE_PREFIX_DATA |
- SYSMODE_VARIABLE
+ SYSMODE_VARIABLE
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
    u32              mode;
    volatile int     intr; /* mask of pending interrupts */
-int              debug;
+    volatile int     debug;
#if defined DEBUG
-int              check;
+    int             check;
    u16             saved_ip;
    u16             saved_cs;
    int             enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
 RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
 retrieving revision 1.1
 retrieving revision 1.3
 diff -u -u -r1.1 -r1.3
 --- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
 +++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
 @@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+    #include <stdio.h>
 #define printk printf
 #endif
@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F 0x004000
 #define DEBUG_DECODE_NOPRINT_F 0x008000
 #define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
 #define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

 void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef __cplusplus
 }                       /* End of "C" linkage for C++  */
 #endif
-/*_X86EMU_X86EMU_H */
#*****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi

if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi

if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."
rm -rf x86emu

echo "Patching files...

SPATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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1.47 netty-resolver 4.1.51.Final

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jar/io/netty/resolver/AbstractAddressResolver.java
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1.48 go-metrics v0.0.0-20181016184325-3113b8401b8a

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1.49 armon-go-metrics v0.0.0-20180917152333-f0300d1749da

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1.51 python-setuptools 40.8.0
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1.52 u-boot 2014.07

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   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
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Build-Jdk: 1.8.0_232
Built-By: yak
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues;version="3.0.0";uses:"sun.misc",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0";uses:"org.jctools.queues,org.jctools.queues.spec"
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1.61 jaxb-core 3.0.0
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* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-
jar/org/apache/camel/converter/jaxb/NamespacePrefixMapperFactory.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/NoopXmlStreamWriterWrapper.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/JaxbConstants.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/JaxbNamespacePrefixMapper.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/mapper/SunJaxb21NamespacePrefixMapper.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/JaxbHelper.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/JaxbXmlStreamWriterWrapper.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/FilteringXmlStreamWriter.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/JaxbDataFormat.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/FallbackTypeConverter.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/NonXmlCharFilterer.java
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/org/apache/camel/converter/jaxb/NonXmlFilterReader.java
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#

class=org.apache.camel.converter.jaxb.FallbackTypeConverterLoader

Found in path(s):
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/META-INF/services/org/apache/camel/TypeConverterLoader
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1.62 jackson 1.4.2

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1.63 animal-sniffer-annotation 1.19

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 */

Found in path(s):
* /opt/cola/permits/1199767196_1630583071.26/0/animal-sniffer-annotations-1-19-sources-1-
  jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

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* /opt/cola/permits/1199767196_1630583071.26/0/animal-sniffer-annotations-1-19-sources-1-jar/META-
INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

1.64 go-humanize v1.0.0
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1.65 bcel 2.7.2

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*/

package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.<P>
* See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.<P>
* @xsl.usage general
*/
public class Version {

/**
* Get the basic version string for the current Xalan release.
* Version String formatted like
* Futurework: have this read version info from jar manifest.
*/
/**
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + "."
        + (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */

public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * 
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *    - a new set of functionality is to be added, eg,
 *      implementation of a new W3C specification.
 *    - API or behaviour change.
 *    - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as

well as defect fixes. 'D' drops may not be as stable as the final releases.

```
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    }
    catch (NumberFormatException nfe) {
        return 0;
    }
}
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PI's, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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 */

/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[D<n]"</CODE>.  
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + getImplementationLanguage() +
          getMajorVersionNum() +
          getReleaseVersionNum() +
          ((getDevelopmentVersionNum() > 0) ?
          ("D" + getDevelopmentVersionNum()) : 
          ")" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
```java
{/n
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if (new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/
/**
* Major version number.
* Version number. This changes only when there is a
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* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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// Proprietary
/** The `document-location()` id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
jar/org/apache/xml/serializer/output_html.properties
No license file was found, but licenses were detected in source scan.

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}
public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "[uri]:*" and "[uri]:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
    public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
        int nodeType;
        if (test == null) {  // "*"
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
        }
        else if (test instanceof Integer) {
            nodeType = ((Integer) test).intValue();
        }
        else {
            QName name = (QName)test;
            boolean setPriority = false;
            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*") ? -1
                    : _xsltc.registerNamespacePrefix(name));
            }
            else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
        predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(  
        new Predicate(  
            new EqualityExpr(Operators.EQ,  
                new NamespaceUriCall(namespace_uri),  
                new LiteralExpr(uri))
        );
    }

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :  
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    } else if (test instanceof Integer) {


    return ((Integer)test).intValue();
  }
  else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
      return (name.toString().equals("*")) ? -1
          : _xsltc.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
      final String local = name.getLocalPart();

      if (local.equals("*")) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
          : NodeTest.ELEMENT;
      }
      else if (local.equals("@*")) {
        return NodeTest.ATTRIBUTE;
      }
    }

    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
  }

  /**
   * Parse the expression passed to the current scanner. If this
   * expression contains references to local variables and it will be
   * compiled in an external module (not in the main class) request
   * the current template to create a new variable stack frame.
   *
   * @param lineNumber Line where the current expression is defined.
   * @param external   Set to <tt>true</tt> if this expression is
   *                   compiled in a separate module.
   *
   */
  public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
      _expression = expression;
      _lineNumber = lineNumber;
      return super.parse();
    }
    catch (IllegalCharException e) {
      ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
          lineNumber, e.getMessage());
      _parser.reportError(Constants.FATAL, err);
/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
  // Is it a local var or param ?
  final SyntaxTreeNode result = _parser.lookupVariable(name);
  if (result != null)
    return(result);
  else
    return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
  _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
  final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
          _expression);
  _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
  // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
  if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
  } else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
  } else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
  }
}

/**

* Returns true if the axis applies to elements only. The axes
* child, attribute, namespace, descendant result in non-empty
* nodesets only if the context node is of type element.
*/
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSibling;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSibling, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
on terminal Expression Predicate, FilterExpr, Step;
on terminal Expression OrExpr, AndExpr, EqualityExpr;
on terminal Expression RelationalExpr, AdditiveExpr;
on terminal Expression MultiplicativeExpr, UnaryExpr;
on terminal Expression VariableReference, FunctionCall;
on terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
on terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
on terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
on terminal Pattern LocationPathPattern;
on terminal StepPattern ProcessingInstructionPattern;
on terminal RelativePathPattern RelativePathPattern;
on terminal StepPattern StepPattern;
on terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
  {: RESULT = pattern; :}
   | EXPRESSION Expr:expr
      {: RESULT = expr; :};

/* --------------------------- Patterns -------------------------- */

Pattern ::= LocationPathPattern:lpp
   {: RESULT = lpp; :}
   | LocationPathPattern:lpp VBAR Pattern:p
      {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
   {: RESULT = new AbsolutePathPattern(null); :}
   | SLASH RelativePathPattern:rpp
      {: RESULT = new AbsolutePathPattern(rpp); :}
   | IdKeyPattern:ikp
      {: RESULT = ikp; :}
   | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
      {: RESULT = new ParentPattern(ikp, rpp); :}
   | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
      {: RESULT = new AncestorPattern(ikp, rpp); :}
   | DSLASH RelativePathPattern:rpp
Open Source Used in kASA v1.1

{ : RESULT = new AncestorPattern(rpp); : }

| RelativePathPattern:rpp
{ : RESULT = rpp; : } |

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{ : RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
 : }

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{ : RESULT = new KeyPattern(l1, l2); : } |

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{ : RESULT = new ProcessingInstructionPattern(l); : } |

RelativePathPattern ::= StepPattern:sp
{ : RESULT = sp; : }

| StepPattern:sp SLASH RelativePathPattern:rpp
{ : RESULT = new ParentPattern(sp, rpp); : } |

| StepPattern:sp DSLASH RelativePathPattern:rpp
{ : RESULT = new AncestorPattern(sp, rpp); : } |

StepPattern ::= NodeTestPattern:nt
{ :
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
  : }

| NodeTestPattern:nt Predicates:pp
{ :
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
  : }

| ProcessingInstructionPattern:pip
{ : RESULT = pip; : }

| ProcessingInstructionPattern:pip Predicates:pp
{ : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : } |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{ :
  RESULT = parser.createStepPattern(axis.intValue(), nt, null);
  : }

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
|:
RESULT = pip; // TODO: report error if axis is attribute
|

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
|:
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
|

NodeTestPattern ::= NameTestPattern:nt
|:
RESULT = nt; |

| NODE
|:
RESULT = new Integer(NodeTest.ANODE); |

| TEXT
|:
RESULT = new Integer(NodeTest.TEXT); |

| COMMENT
|:
RESULT = new Integer(NodeTest.COMMENT); |

| PI
|:
RESULT = new Integer(NodeTest.PI); |

NameTestPattern ::= STAR
|:
RESULT = null; |

| QName:qn
|:
RESULT = qn; |

ChildOrAttributeAxisSpecifier ::= ATSIGN
|:
RESULT = new Integer(Axis.ATTRIBUTE); |

| CHILD DCOLON
|:
RESULT = new Integer(Axis.CHILD); |

| ATTRIBUTE DCOLON
|:
RESULT = new Integer(Axis.ATTRIBUTE); |

Predicates ::= Predicate:p
|:
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
    :

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e);
   :};

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}
| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}
| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}
| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}
| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}
| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}
| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
| RelationalExpr:re LE AdditiveExpr:ae
|   { RESULT = new RelationalExpr(Operators.LE, re, ae); : }

| RelationalExpr:re GE AdditiveExpr:ae
|   { RESULT = new RelationalExpr(Operators.GE, re, ae); : };

AdditiveExpr ::= MultiplicativeExpr:me
   { RESULT = me; : }

   | AdditiveExpr:ae PLUS MultiplicativeExpr:me
   |   { RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

   | AdditiveExpr:ae MINUS MultiplicativeExpr:me
   |   { RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : };

MultiplicativeExpr ::= UnaryExpr:ue
   { RESULT = ue; : }

   | MultiplicativeExpr:me MULT UnaryExpr:ue
   |   { RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

   | MultiplicativeExpr:me DIV UnaryExpr:ue
   |   { RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

   | MultiplicativeExpr:me MOD UnaryExpr:ue
   |   { RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : };

UnaryExpr ::= UnionExpr:ue
   { RESULT = ue; : }

   | MINUS UnaryExpr:ue
   |   { RESULT = new UnaryOpExpr(ue); : };

UnionExpr ::= PathExpr:pe
   { RESULT = pe; : }

   | PathExpr:pe VBAR UnionExpr:rest
   |   { RESULT = new UnionPathExpr(pe, rest); : };

PathExpr ::= LocationPath:lp
   { RESULT = lp; : }

   | FilterExpr:fexp
   |   { RESULT = fexp; : }

   | FilterExpr:fexp SLASH RelativeLocationPath:rlp
   |   { RESULT = new FilterParentPath(fexp, rlp); : }
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{: RESULT = (RelativeLocationPath) rlp; :}
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;       // Remove './' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;        // Remove '/.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
 |
 final Step right = (Step)step;
 final int axis = right.getAxis();
 final int type = right.getNodeType();
 final Vector predicates = right.getPredicates();

 if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
   // Compress './/child:E' into 'descendant::E' - if possible
   if (predicates == null) {
     right.setAxis(Axis.DESCENDANT);
     if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
       RESULT = right;
     } else {
       // Expand 'rlp//child::E' into 'rlp/descendant::E'
       RelativeLocationPath left = (RelativeLocationPath)rlp;
       RESULT = new ParentLocationPath(left, right);
     }
   } else {
     // Expand './/step' -> 'descendant-or-self::*/step'
     if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
       Step left = new Step(Axis.DESCENDANTORSELF,
                             DTM.ELEMENT_NODE, null);
       RESULT = new ParentLocationPath(left, right);
     } else {
       // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
       RelativeLocationPath left = (RelativeLocationPath)rlp;
       Step mid = new Step(Axis.DESCENDANTORSELF,
                            DTM.ELEMENT_NODE, null);
       ParentLocationPath ppl = new ParentLocationPath(mid, right);
       RESULT = new ParentLocationPath(left, ppl);
     }
   }
 } else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
   // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
   RelativeLocationPath left = (RelativeLocationPath)rlp;
}
Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
;

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
        //
        // Expand '// into '/descendant-or-self::node()/' or
        // into /descendant-or-self::*/
        //
        int nodeType = DTM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
    ;

Step ::= NodeTest:ntest
    {:
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
        }
    ;

    | NodeTest:ntest Predicates:pp
      {:
        if (ntest instanceof Step) {
Step step = (Step) ntest;
step.addPredicates(pp);
RESULT = (Step) ntest;
}
else {
    RESULT = new Step(Axis.CHILD,
                        parser.findNodeType(Axis.CHILD, ntest), pp);
}

| AxisSpecifer:axis NodeTest:ntest Predicates:pp |
| : RESULT = new Step(axis.intValue(),
                        parser.findNodeType(axis.intValue(), ntest), pp);
| : |

| AbbreviatedStep:abbrev |
| : RESULT = abbrev; |

AxisSpecifer ::= AxisName:an DCOLON |
| : RESULT = an; |

| ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); |

AxisName ::= ANCESTOR |
| : RESULT = new Integer(Axis.ANCESTOR); |

| ANCESTORORSELF |
| : RESULT = new Integer(Axis.ANCESTORORSELF); |

| ATTRIBUTE |
| : RESULT = new Integer(Axis.ATTRIBUTE); |

| CHILD |
| : RESULT = new Integer(Axis.CHILD); |

| DESCENDANT |
| : RESULT = new Integer(Axis.DESCENDANT); |

| DESCENDANTORSELF |
| : RESULT = new Integer(Axis.DESCENDANTORSELF); |
| FOLLOWING |
|: RESULT = new Integer(Axis.FOLLOWING); : |

| FOLLOWINGSIBLING |
|: RESULT = new Integer(Axis.FOLLOWINGSIBLING); : |

| NAMESPACE |
|: RESULT = new Integer(Axis.NAMESPACE); : |

| PARENT |
|: RESULT = new Integer(Axis.PARENT); : |

| PRECEDING |
|: RESULT = new Integer(Axis.PRECEDING); : |

| PRECEDINGSIBLING |
|: RESULT = new Integer(Axis.PRECEDINGSIBLING); : |

| SELF |
|: RESULT = new Integer(Axis.SELF); : |

AbbreviatedStep ::= DOT
|: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : |

AbbreviatedStep ::= DDOT
|: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : |

FilterExpr ::= PrimaryExpr:primary
|: RESULT = primary; : |

| PrimaryExpr:primary Predicates:pp |
|: RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
|: RESULT = vr; : |

| LPAREN Expr:ex RPAREN |
|: RESULT = ex; : |

| Literal:string |
|: |

/*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

| INT:num
{| long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
        RESULT = new RealExpr(value);
    }
    else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
            RESULT = new IntExpr(num.intValue());
        else if (num.doubleValue() == 0.0)
            RESULT = new RealExpr(num.doubleValue());
        else
            RESULT = new IntExpr(num.intValue());
    }
}

| REAL:num
|:: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
|:: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{: // An empty qname prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        } else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
    }
else {
    RESULT = new UnresolvedRef(varName);
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
::;

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    } else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    } else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    } else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    } else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

):

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
{|:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
        parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
    }

    else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        parser.setHasIdCall(true);
        RESULT = new KeyCall(fname, argl);
    }

}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if ((fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set"))) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
);

NonemptyArgumentList ::= Argument:arg
| Argument:arg COMMA NonemptyArgumentList:argl |
| : argl.insertElementAt(arg, 0); RESULT = argl; : |

FunctionName ::= QName:fname |
| : RESULT = fname; |
| ; |

VariableName ::= QName:vname |
| : RESULT = vname; |
| ; |

Argument ::= Expr:ex |
| : RESULT = ex; ; |

NodeTest ::= NameTest:nt |
| : RESULT = nt; |
| ; |

| NODE |
| : RESULT = new Integer(NodeTest.ANODE); ; |

| TEXT |
| : RESULT = new Integer(NodeTest.TEXT); ; |

| COMMENT |
| : RESULT = new Integer(NodeTest.COMMENT); ; |

| PIPARAM LPAREN Literal:l RPAREN |
| : QName name = parser.getQNameIgnoreDefaultNs("name"); Expression exp = new EqualityExpr(Operators.EQ, 
| new NameCall(name), 
| new LiteralExpr(l)); Vector predicates = new Vector(); predicates.addElement(new Predicate(exp)); 
| RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates); |
| ; |

| PI |
| : RESULT = new Integer(NodeTest.PI); ; |
NameTest ::= STAR
   [: RESULT = null ; ]

| QName:qn
   [: RESULT = qn ; ]:

QName ::= QNAME:qname
   [: RESULT = parser.getQNameIgnoreDefaultNs(qname) ; ]

| DIV
   [: RESULT = parser.getQNameIgnoreDefaultNs("div") ; ]

| MOD
   [: RESULT = parser.getQNameIgnoreDefaultNs("mod") ; ]

| KEY
   [: RESULT = parser.getQNameIgnoreDefaultNs("key") ; ]

| ANCESTOR
   [: RESULT = parser.getQNameIgnoreDefaultNs("child") ; ]

| ANCESTORORSELF
   [: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self") ; ]

| ATTRIBUTE
   [: RESULT = parser.getQNameIgnoreDefaultNs("attribute") ; ]

| CHILD
   [: RESULT = parser.getQNameIgnoreDefaultNs("child") ; ]

| DESCENDANT
   [: RESULT = parser.getQNameIgnoreDefaultNs("decendant") ; ]

| DESCENDANTORSELF
   [: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self") ; ]

| FOLLOWING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following") ; ]

| FOLLOWINGSIBLING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling") ; ]

| NAMESPACE
   [: RESULT = parser.getQNameIgnoreDefaultNs("namespace") ; ]

| PARENT
   [: RESULT = parser.getQNameIgnoreDefaultNs("parent") ; ]
| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDING-SIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/functions/FuncDoclocation.java
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* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas *

* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // ...
// If end of buffer, can't disambiguate :
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is '::' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
    yy_buffer[index] == '(') ?
    newSymbol(ss) : newSymbol(sym.QNAME, yytext());

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}
/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
        }
    return newSymbol(sym.MULT);
}
Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}
Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}
%eofval{
    return newSymbol(sym.EOF);
%eofval}
%yylexthrow{
    Exception
    %yylexthrow}
Letter={BaseChar}|{Ideographic}
BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA-\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u0455\u045C\u045E-\u0481\u0489-\u04C8-\u04CC\u04DF-\u04E2-\u04F0-\u04F5\u04F9-\u0531-\u0556\u0559-\u0561-\u0586\u05D0-\u05EA-\u05F0-\u05FC-\u0611-\u0634\u0641-\u066A\u0671-\u068B\u068C-\u06AC\u06B0-\u06D5-\u06E5-\u06E6-\u06F5-\u0719-\u075D-\u0760-

Ideographic=[\u4E00-\u9FA5\u3007-\u3029]
CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u059A\u05A3-\u05B9\u05BB-]
Open Source Used In KASA v1.1
"<" [ return newSymbol(sym.LT); ]
">
"<=" [ return newSymbol(sym.LE); ]
">=" [ return newSymbol(sym.GE); ]
"id" [ return disambiguateAxisOrFunction(sym.ID); ]
"key" [ return disambiguateAxisOrFunction(sym.KEY); ]
"text()" [ return newSymbol(sym.TEXT); ]
"text"+[ "\"\n\f"]+"()" [ return newSymbol(sym.TEXT); ]
"node()" [ return newSymbol(sym.NODE); ]
"node"+[ "\"\n\f"]+"()" [ return newSymbol(sym.NODE); ]
"comment()" [ return newSymbol(sym.COMMENT); ]
"comment"+[ "\"\n\f"]+"()" [ return newSymbol(sym.COMMENT); ]
"processing-instruction" [ return disambiguateAxisOrFunction(sym.PIPE); ]
"processing-instruction()" [ return newSymbol(sym.PI); ]
"processing-instruction"+[ "\"\n\f"]+"()" [ return newSymbol(sym.PI); ]
"or" [ return disambiguateOperator(sym.OR); ]
"and" [ return disambiguateOperator(sym.AND); ]
"child" [ return disambiguateAxisOrFunction(sym.CHILD); ]
"attribute" [ return disambiguateAxisOrFunction(sym.ATTRIBUTE); ]
"ancestor" [ return disambiguateAxisOrFunction(sym.ANCESTOR); ]
"ancestor-or-self" [ return disambiguateAxisOrFunction(sym.ANCESTORORSELF); ]
"descendant" [ return disambiguateAxisOrFunction(sym.DESCENDANT); ]
"descendant-or-self" [ return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); ]
"following" [ return disambiguateAxisOrFunction(sym.FOLLOWING); ]
"following-sibling" [ return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); ]
"namespace" [ return disambiguateAxisOrFunction(sym.NAMESPACE); ]
"parent" [ return disambiguateAxisOrFunction(sym.PARENT); ]
"preceding" [ return disambiguateAxisOrFunction(sym.PRECEDING); ]
"preceding-sibling" [ return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); ]
"self" [ return disambiguateAxisOrFunction(sym.SELF); ]
"[" [ return newSymbol(sym.LBRACK); ]
"]" [ return newSymbol(sym.RBRACK); ]
"(" [ return newSymbol(sym.LPAREN); ]
")" [ return newSymbol(sym.RPAREN); ]
""[PATTERN]"" [ initialize(); return new Symbol(sym.PATTERN); ]
"<EXPRESSION>" [ initialize(); return new Symbol(sym.EXPRESSION); ]
"[^\^]*" [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
"[^\^]*" [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
[Digit]+ [ return newSymbol(sym.INT, new Long(yytext())); ]
[Digit]+".[Digit]*" [ return newSymbol(sym.REAL, new Double(yytext())); ]
"."[Digit]+ [ return newSymbol(sym.REAL, new Double(yytext())); ]
"." [ return newSymbol(sym.DOT); ]
({NCName}:)?({NCName} [ return newSymbol(sym.QNAME, yytext()); ]
({NCName}:)?"*" [ return newSymbol(sym.QNAME, yytext()); ]
({NCName}:)?"@*" [ return newSymbol(sym.QNAME, yytext()); ]
[ "\"\n\f"] /* ignore white space. */}
Found in path(s):
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.lex
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 */

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 */
@deprecated To be replaced by org.apache.xalan.Version.getVersion()
@xsl.usage general
/**
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 * *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}
/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
a specific release. D01 is the first development drop
of a new release.

Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as
the final releases.

/ *
public static final int DEVELOPMENT = 0;

/**
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));

}
* limitations under the License.

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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 */
// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
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* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xxfcs/compiler/CurrentCall.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
  jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *<p>
 * {[@link ChannelHandler]} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *<ul>
 *<li>{[@link ChannelInboundHandler]} to handle inbound I/O events, and</li>
 *<li>{[@link ChannelOutboundHandler]} to handle outbound I/O operations.</li>
 * </ul>
 *<p>
 * Alternatively, the following adapter classes are provided for your convenience:
 *<ul>
 *<li>{[@link ChannelInboundHandlerAdapter]} to handle inbound I/O events,</li>
 *<li>{[@link ChannelOutboundHandlerAdapter]} to handle outbound I/O operations, and</li>
 *<li>{[@link ChannelDuplexHandler]} to handle both inbound and outbound events</li>
 */
* For more information, please refer to the documentation of each subtype.
* 
* 
* <h3>The context object</h3>
* 
* A `{@link ChannelHandlerContext}` object. A `{@link ChannelHandler}` is supposed to interact with the
* `{@link ChannelPipeline}` it belongs to via a context object. Using the
* context object, the `{@link ChannelHandler}` can pass events upstream or
downstream, modify the pipeline dynamically, or store the information
* (using `{@link AttributeKey}`s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A `{@link ChannelHandler}` often needs to store some stateful information.
The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        } ...
    }
}
```

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:
* Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;@link Channel&gt; {  
*   [@code @Override]  
*   public void initChannel(@link Channel) {  
*     channel.pipeline().addLast("handler", new DataServerHandler());  
*   }  
* }  
* }  
* }

* Using [@link AttributeKey]s
*
* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use [@link AttributeKey]s which is provided by [@link ChannelHandlerContext]:

* public interface Message {  
*   // your methods here  
* }
*  
* [@code @Sharable]  
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {  
*   private final [@link AttributeKey]&lt;@link Boolean&gt; auth =  
*     AttributeKey.valueOf("auth");  
*   @Override  
*   public void channelRead(@link ChannelHandlerContext) ctx, Message message) {  
*     Attribute&lt;Boolean&gt; attr = ctx.attr(auth);  
*     if (message instanceof LoginMessage) {  
*       authenticate((LoginMessage) o);  
*       attr.set(true);  
*     } else if (message instanceof GetDataMessage) {  
*       if (Boolean.TRUE.equals(attr.get())) {  
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));  
*       } else {  
*         fail();  
*       }  
*     }  
*   }  
*   ...
* }
* }

* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the same handler instance to different pipelines:
* public class DataServerInitializer extends \{@link ChannelInitializer\}\{@link Channel\}\{@Override\} { 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*     \{@code @Override\} 
*     public void initChannel({@link Channel} channel) { 
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }  
* </pre>

* <h4>The {@code @Sharable} annotation</h4>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* If a {@link ChannelHandler} is annotated with the {@code @Sharable} annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* This annotation is provided for documentation purpose, just like
* <h3>Additional resources worth reading</h3>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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  jar/io/netty/channel/ChannelHandlerAdapter.java
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  jar/io/netty/channel/group/DefaultChannelGroup.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
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1.78 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '\([^']\)+'", io.open('path.join(path.dirname(__file__), 'webencodings', '___init__py')),
encoding='utf-8'
).read().strip().group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/setup.py
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```

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~
Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['"
```
for label, name in labels)
parts.append('})
return ",".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

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

This is a Python implementation of the `WHATWG Encoding standard`_
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.
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1.80 lint v0.0.0-20190313153728-d0100b6bd8b3

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1.84 libfontconfig 2.13.1-2

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1.89 go-cmp v0.4.0

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1.90 diskv v2.0.1+incompatible

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1.91 xz 5.2.4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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<td>no</td>
</tr>
<tr>
<td>2.0</td>
<td>1.6+1.6.1</td>
<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
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</table>

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

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

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
   added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.
Asynchronous socket services
-----------------------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us/) in Reston,
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt9937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at  
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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Modified by Jack Jansen, CWI, July 1995:
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-------

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Clockwork - a scheduler process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every( '3m') { puts 'every 3 minutes' }
every( '1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

```
$ clockwork schedule.rb
```

Or run directly with Ruby:

```
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job
queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork'
include Clockwork

require 'stalker'
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

```ruby
require 'config/boot'
require 'config/environment'

require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

In production
--------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.
Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [resque-scheduler](http://github.com/bvandenbos/resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.109 bouncycastle-fips 1.0.3
1.109.1 Available under license:
No license file was found, but licenses were detected in source scan.

/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ",.com", ",.net", ",.org" }
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.110 libmnl 1.0.4-r1
1.110.1 Available under license:
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  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
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  * Added atomicops for AIX (POWER)

### 1.113 jemalloc 5.2.1

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1.114 murmur v0.0.0-20180118202830-f09979ecbc72

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1.117 go.mongodb.org-mongo-driver v1.1.2

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tomb - support for clean goroutine termination in Go.

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

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

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

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

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

{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
```

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### 1.121 mock v1.3.1

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individual or corporate CLA was used.

# Names should be added to this file like so:
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#
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# first address should be used in the submit logs and 
# that the second address should be recognized as the 
# same person when interacting with Rietveld.

# Please keep the list sorted.

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Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

// This is a mock copyright header.

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// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
    gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface
type MockEmpty struct {
    ctrl *gomock.Controller
}
// MockEmptyMockRecorder is the mock recorder for MockEmpty

type MockEmptyMockRecorder struct {
    mock *MockEmpty

    // NewMockEmpty creates a new mock instance
    func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
        mock := &MockEmpty{ctrl: ctrl}
        mock.recorder = &MockEmptyMockRecorder{mock}
        return mock
    }

    // EXPECT returns an object that allows the caller to indicate expected use
    func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
        return m.recorder
    }

    // This is a mock copyright header.

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1.128 crypto v0.0.0-20201221181555-eec23a3978ad

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1.129 golang-protobuf-extensions v1.0.1

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1.130 x-oauth2 v0.0.0-20190604053449-0f29369cfe45

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# The TZ database itself is not an IETF Contribution or an IETF
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## 6. Google double-conversion

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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
  $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
  $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
  $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
  $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
  @echo "generating dependency information for $<"
  @$$(SHELL) -ec "$$(GEN_DEPS.c) $< | sed \"s/\$(\$*)/.o:/g\" | tr \" -f $<"
```

```
%.d: $(srcdir)/%.cpp
```

---

Open Source Used In KASA v1.1 1299
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed "$<s/($*)\.o[ :]*/\1.o $@ : /g" > $@; \n[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.so.%.so_target_version_major: %.so.%.so_target_version
$(RM) $@ && ln -s ${<F} $@
%.so: %.so.%.so_target_version_major
$(RM) $@ && ln -s ${*F}.%.so.%.so_target_version $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.140 x-text v0.3.4

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1.141 go-autorest-validation v0.3.0

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1.142 go-retryablehttp v0.6.2

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1.143 pciutils 3.6.2

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* further details.
*
*
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* M. Welsh, 6 July 1996
*
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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"  
)

var sentinels = []string{  
  "Copyright",  
  "Google",  
  "Licensed under the Apache License, Version 2.0 (the "License");",  
}

func TestLicense(t *testing.T) {  
t.Parallel()  
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
  if err != nil {  
    return err  
  }  

  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
    return nil  
  }  

  if strings.HasSuffix(path, ".pb.go") {  
    // .pb.go files are generated from the proto files.  
    // .proto files must have license headers.
  }

  for _, s := range sentinels {  
    if strings.Contains(path, s) {  
      fmt.Fprintf(t, "Source code should not contain %s
", s)  
      break  
    }
  }
}

err = filepath.Walk(".", testLicense)  
if err != nil {  
  t.Errorf("internal file walk failed: %v", err)  
}
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}
return nil
)
if err != nil {
t.Fatal(err)
}
}

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import: ../../../../fossene/db/schema/thing.yml
fields:
    site: string
    author: root

1.152 acpid 2.0.30

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1.155 jackson-mapper-asl 1.9.13

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  jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.156 spew 1.1.1

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1.157 afero v1.0.5

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1.158 commons-digester 1.7

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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromFile.java

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  jar/org/apache/commons/digester/WithDefaultsRulesWrapper.java
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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/LogUtils.java

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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/CallMethodRule.java

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* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java

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2006-Jan-27

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall...
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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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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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1.186 idna 2.7-1.ph3
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***
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
***
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()
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1.188.1 Available under license:
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/AbstractMultiset.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingSortedSet.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingSetMultimap.java

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jar/com/google/common/collect/Tables.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/Queues.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/cache/RemovalListener.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/Funnels.java
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Absent.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/FilteredKeyMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ByteSource.java
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 *
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 */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/CommonPattern.java

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jar/com/google/common/collect/MinMaxPriorityQueue.java
/* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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jar/com/google/common/escape/Escapers.java
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jar/com/google/common/collect/RegularImmutableTable.java
*/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
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jar/com/google/common/annotations/GwtCompatible.java
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jar/com/google/common/net/HostSpecifier.java
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jar/com/google/common/cache/LocalCache.java
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jar/com/google/common/util/concurrent/AbstractService.java
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jar/com/google/common/primitives/SignedBytes.java
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jar/com/google/common/collect/DenseImmutableTable.java
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jar/com/google/common/collect/MultimapBuilder.java
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/**
* Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
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*/

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
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Returns an array containing all of the elements in the specified collection. This method returns the elements in the order they are returned by the collection's iterator. The returned array is "safe" in that no references to it are maintained by the collection. The caller is thus free to modify the returned array.

This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@returns c the collection for which to return an array of elements

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/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableSetMultimap.java

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  * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/graph/package-info.java
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/**
 * Holder for web specializations of methods of {code Ints}. Intended to be empty for regular
 * version.
 */

Found in path(s):
  * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/IntsMethodsForWeb.java
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This method was rewritten in Java from an intermediate step of the Murmur hash function in http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the following header:

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/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/Hashing.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/VerifyException.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Verify.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharSequenceReader.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractTable.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

/opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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  jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/hash/Stripped64.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/math/BigDecimalMath.java

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 */

/*
 * Outer class that exists solely to let us write @code Partially.GwtIncompatible instead of plain
 * @code GwtIncompatible}. This is more accurate for @link Futures#catching, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use @code PartiallyGwtIncompatible because then the GWT compiler wouldn't recognize
 * it as a @code GwtIncompatible annotation. And for @code Futures.catching, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/FilteredEntryMultimap.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/SortedIterable.java
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Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
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    jar/com/google/common/base/Converter.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Finals.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
    jar/com/google/common/escape/UnicodeEscaper.java
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 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources.jar/com/google/common/hash/LittleEndianByteArray.java
 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources.jar/com/google/common/util/concurrent/AsyncCallable.java
 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources.jar/com/google/common/hash/FarmHashFingerprint64.java
 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources.jar/com/google/common/io/ReaderInputStream.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MutableGraph.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
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  jar/com/google/common/collect/SortedMultiset.java
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-[Comparable]</b>
 * key.</p> Proper calls will resolve to the version in [ImmutableSortedMap], not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type [Comparable] to use [ImmutableSortedMap#of(Comparable, Object)].</b>
 */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources.jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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 */
/**
 * Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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*/

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  site: string
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1.197 netty-transport 4.1.61.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.61.Final
Built-By: norman
Bnd-LastModified: 1617096666373
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.resolver;version="[4.1,5)";io.netty.util;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.internal.logging;version="[4.1,5)";sun.nio.ch;resolution=optional;org.eclipse.jetty.npn;version="[1,2)";resolution=optional;org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.61.Final
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Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-transport/

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1.198 base-files 9.9+deb9u7

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1.208 asm 5.0.3

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/**
* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
* *
* @param owner
the owner's class name.
* @param access
  the method's access flags (see \{@link Opcodes\}).
* @param name
  the method's name.
* @param desc
  the method's descriptor (see \{@link Type\}).
* @param mv
  the method visitor to which this adapter delegates calls. May
  be <tt>null</tt>.
* @throws IllegalStateException
  If a subclass calls this constructor.
*/

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/**
 * Creates a new (@link GeneratorAdapter). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * (@link #GeneratorAdapter(int, MethodVisitor, int, String, String))
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see (@link Opcodes)).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see (@link Type Type)).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 * Creates a new JSRInliner. <i>Subclasses must not use this</i>
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 * *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 */

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 */
* @param access
* the method's access flags (see [@link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* { [@link Type#getInternalName() getInternalName ] }). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*
* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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/**
* Constructs a new [ @link Textifier ]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [ @link #Textifier(int) ]
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* *
* @throws IllegalStateException
* @throws IllegalArgumentException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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jar/org/objectweb/asm/xml/SAXClassAdapter.java
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jar/org/objectweb/asm/xml/SAXAdapter.java
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AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)
Optimised ANSI C code for the Rijndael cipher (now AES)

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DES core in libhcrypto

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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David Megginson, david@megginson.com
2000-05-05

1.214 go-yaml 2.3.0

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1.216 value 2.8.2

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/AnnotationMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/Value.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$Proto.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$ValueMirrors.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SValuesTemplate.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/Output.java

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/SCriteriaRepository.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/SJavaBeanAttributesCollector.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/SMoreElements.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/SMoreTypes.java

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jar/org/immutables/value/internal/$processor$/SHasStyleInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/SCheckedExceptionProbe.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$generator$/SDelegated.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/Generated.java

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package org.immutables.value.processor;
import static org.immutables.generator.Intrinsics.*;

@java.lang.SuppressWarnings("all")
public class Generator_Immutables extends org.immutables.value.processor.Immutables {
    public org.immutables.generator.Templates.Invokable generate() { return generate; }
    private final org.immutables.generator.Templates.Invokable generate = new FragmentDispatch(0, 0);

    void _t0__generate(org.immutables.generator.Templates.Invokation __) {
        __dl(); __ln();
        __out(" ");
        { final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueType type : $in(values.values())) {
            __dl(); __ln();
            __out(" ");
            __dl();
            if ($if(type.constitution.hasTopLevelImmutable())) {
                __dl(); __ln();
                __dl(); __ln();
                $(__, output.java, type.$$package(), type.typeImmutable().simple(), type.element, new org.immutables.generator.Templates.Fragment(0) {
                    @Override public void run(org.immutables.generator.Templates.Invokation __) {
                        __dl(); __ln();
                        $(__, generateImmutable, type, $$true);
                        __ln();
                        __dl();
                    }
                });
                __ln();
                __out(" ");
                __dl();
                if ($if(type.isGenerateWithInterface())) {
                    __dl(); __ln();
                    $(__, output.java, type.$$package(), type.typeWith().simple(), type.element, new org.immutables.generator.Templates.Fragment(0) {
                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                            __dl(); __ln();
                            $(__, generateWithInterface, type, $$true);
                            __ln();
                            __dl();
                        }
                    });
                    __ln();
                    __out(" ");
                }
            }
        }
    }
    __dl(); __ln();
}
final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final java.lang.Boolean is = $if(__.param(1));

if ($if(is)) {
    if ($if(type.generatedSuppressWarnings())) {
        @SuppressWarnings({
            for (final java.lang.String k : $in(type.generatedSuppressWarnings())) {
                if ($(not, _it1.first)) {
                    ",
                }
                ",
                _it1.index++;
                _it1.first = false;
            }
        })
    }
    @edu.umd.cs.findbugs.annotations.SuppressFBWarnings
    @javax.annotation.ParametersAreNonnullByDefault
    @javax.annotation.processing.Generated("org.immutables.processor.ProxyProcessor")
} else if ($if($(type, allowsClasspathAnnotation, "javax.annotation.Generated"))) {
    @javax.annotation.Generated("org.immutables.processor.ProxyProcessor")
}
@javax.annotation.Generated("org.immutables.processor.ProxyProcessor")

packageWhenTopLevel() { return packageWhenTopLevel; }

private final org.immutables.generator.Templates.Invokable packageWhenTopLevel = new FragmentDispatch(2, 2);

void _t2__packageWhenTopLevel(org.immutables.generator.Templates.Invokation __) {

  final org.immutables.value.processor.meta.ValueType type = __.param(0);
  final java.lang.Boolean is = $if(__.param(1));

  if ($if(is)) {
    $(__, type.sourceHeader());
    $out(" ");
    __.dl();
    if ($if(type.$$package())) {
      $out("package ");
      $(__, type.$$package());
      $out(";").ln();
      $out(" ");
    }
  }

  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();
  __.dl();
  __.ln();

  for (final java.lang.String starImport : $in(type.getRequiredSourceStarImports())) {
    $(__, starImport); 
    $out(" ");
    $(__, starImport); 
    $out(";").ln();
    __.dl();
  }
}
```java
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String routine : $in(type.getImmutableCopyOfRoutines())) {
    _it1.index++;
    _it1.first = false;
}
}

if ($if(type.getDebugLines())) {
    /*--DEBUG---------------------------------------------------*/
    $(__, eachLine, type.getDebugLines());
    /*--------------------------------*/
}

org.immutables.generator.Templates.Invokable generateEnclosing() {
    return generateEnclosing;
}
private final org.immutables.generator.Templates.Invokable generateEnclosing = new FragmentDispatch(1, 3);
void _t3__generateEnclosing(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    $(__, packageWhenTopLevel, type, $$true);
    $(__, typeEnclosing(), simple());
    $(__out(" contains immutable implementation classes generated from ").ln());
    $(__out(" abstract value types defined as nested inside @link ").ln());
    $(__, typeAbstract().relativeRaw());
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueType v : $in(type.nested)) {
        _it1.index++;
    }
    };
}
```
public final class $t {  
  private $t() {}  
}  

final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();  
for (final org.immutables.value.processor.meta.ValueType v : $i(type.nested)) {  
  _it1.index++;  
  _it1.first = false;  
}  

if ($i(v.constitution.isOutsideBuilder())) {  
  $i(generateBuilder, v, $f);  
  $i(forwardingEnclosingFactoryMethods, v);  
}  

if ($i(v.isGenerateWithInterface())) {  
  $i(generateWithInterface, v, $f);  
}  

$GENERATE_IMMUTABLE(v, $f)  
$GENERATE_BUILDER(v, $f)  
$GENERATE_WITH_INTERFACE(v, $f)
```java
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__out(" ");
$__(_. objectsUtility, type);
__ln();
__dl();
if ($if($type.isGenerateJdkOnly(), and, $type.isUseCollectionUtility())) {
  __dl();__ln();
  __out(" ");
  $__(_. collectionUtility, type);
  __ln();
}
__dl();__ln();
__dl();
if ($if($type.detectAttributeBuilders())) {
  __dl();__ln();
  __out(" ");
  $__(_. attributeBuilderTransformUtilities, type);
  __ln();
}
__dl();__ln();
__out("}");__ln();
__dl();
}
org.immutables.generator.Templates.Invokable generateImmutable() { return generateImmutable; }
private final org.immutables.generator.Templates.Invokable generateImmutable = new FragmentDispatch(2, 4);
void _t4__generateImmutable(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  __ln();
  __ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters = $cast(type.getSettableAttributes());
    __dl();__ln();
    __out("/**").__ln();
    __out(" */").__ln();
    __dl();
    if ($if($type.getDocComment())) {
      __dl();__ln();
      {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      }
    }
  }
}
```
for (final java.lang.String d : $in(type.getDocComment())) {
  $.dl(); $.ln();
  $.out(" *");
  $.dl(); $.ln();
  $.dl(); $it2.index++;
  $it2.first = false;
}
$.dl(); $.ln();
$.out(" ");
}

} else {
  $.dl(); $.ln();
  $.out(" * Immutable implementation of [@link");
  $.($__, type.typeAbstract().relativeRaw());
  $.out(".").ln();
  $.out(" * <p>");
  $.dl();
  if ($if(type.isUseBuilder())) {
    $.dl(); $.ln();
    $.out(" * Use the builder to create immutable instances:");
    $.out(" *").ln();
    $.out(" * [@code");
    $.($__, type.factoryBuilder().relativeRaw());
    $.out("}.").ln();
  }
  $.dl(); $.ln();
  $.dl();
  if ($if(type.isUseConstructor())) {
    $.dl(); $.ln();
    $.out(" * Use the static factory method to create immutable instances:");
    $.out(" *").ln();
    $.out(" * [@code");
    $.($__, type.factoryOf().relativeRaw());
    $.out("}.").ln();
  }
  $.dl(); $.ln();
  $.dl();
  if ($if(type.isUseSingleton())) {
    $.dl(); $.ln();
    $.out(" * Use the static factory method to get the default singleton instance:");
    $.out(" *").ln();
    $.out(" * [@code");
    $.($__, type.factoryInstance().relativeRaw());
    $.out("}.").ln();
  }
  $.dl(); $.ln();
  $.dl();
}
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();___.out("class ");
    $(___.type.typeImmutable().simple());
    $(___.type.generics());
    ___.ln();
    ___.out(" ");
    $(___.extendsImplements, type);
    ___.dl();
    ___.ln();
    ___.dl();
}

if ($if(type.isAnnotationType())) {
    __.dl();___.ln();
    ___.out(" ");
    $(___.defaultAnnotationValues, type);
    ___.ln();
}

    __.dl();___.ln();
    ___.dl();
}

if ($if($not, type.constitution.isOutsideBuilder())) {
    __.dl();___.ln();
    ___.out(" ");
    $(___.rr.staticFields(), type.getImplementedAttributes());
    ___.ln();
}

    __.dl();___.ln();
    $(___.generateImmutableMembers, type);
    ___.ln();
    $(___.generateLazyValues, type);
    ___.ln();
    $(___.generateInterning, type);
    ___.ln();
    $(___.generateSingletonInstance, type);
    ___.ln();
    $(___.parcelables.generate(), type);
    ___.ln();
    $(___.generateConstruction, type);
    ___.ln();
    ___.out(" ");
    $(___.generateImmutableCopyOf, type);
    ___.ln();
    ___.out(" ");
    $(___.generateSerialization, type);
```java
__.ln();
__.out(" ");
$.(__, rr.valueHelperMethods(), type.getImplementedAttributes());
__.ln();
__.dl();
if ($if($(type.isUseBuilder(), andnot, type.constitution.isOutsideBuilder()))) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if($(not, type.factoryBuilder().isNew()))) {
    __.dl();__.ln();
    __.out(" ");
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
     final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters = $cast(type.getBuilderParameters());
    __.dl();__.ln();
    __.ln();
    __.out(" /**").ln();
    __.out(" * Creates a builder for { @link ");
    $.(__, type.typeValue().relativeRaw());
    __.out(" ");
    $.(__, type.typeValue().simple());
    __.out(" ");
    __.ln();
    __.out(" ");
    $.(__, javadocBuilderExample, type);
    __.ln();
    __.ln();
    $.(__, javadocGenerics, type);
    __.ln();
    __.ln();
    {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
      __.dl();__.ln();
      __.out(" * @param ");
      $.(__, p.name());
      __.out(" [@code ");
      $.(__, p.name());
      __.out(" } parameter");
      __.dl();
      if ($if(p.isNullable())) {
        __.dl();__.out(" , can be { @code null } ");
      }
    }
    __.dl();__.ln();
    __.out(" ");
    __.dl();__.it3.index++;
    _it3.first = false;
  }
```
```java
__out("   * @return A new ");
$(__, type.typeValue().simple());
__out(" builder").ln();
__out("   *");ln();
__out(" public static");
$(__, type.generics().def());
__out(" ");
$__ = factoryBuildStageBuilderType, type);
__out(" ");
$__ = type.factoryBuilder().applied();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
   __dl();__dl();
   if ($if($(not, _it3.first))) {
      __dl();__out(" , ");
   }
   __dl();$__ = p.atNullability();
   $(__, constructorAcceptType, p);
   __out(" ");
   $(__, p.name());
   __dl();_it3.index++;
   _it3.first = false;
}
}__dl();__out(" ").ln();
__out("   return new ");
$__ = type.typeBuilderImpl().relativeRaw();
$(__, type.generics().diamond());
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
   __dl();__dl();
   if ($if($(not, _it3.first))) {
      __dl();__out(" , ");
   }
   __dl();$__ = p.name();
   __dl();_it3.index++;
   _it3.first = false;
}
}__dl();__out(";").ln();
__out(" ");ln();
__out(" ");ln();
__out(" ");
```
if ($if($(parameters, andnot, type.kind().isFactory()))) {
  __.dl(); __.ln();
  __.ln();
  __.out(" static");
  $(__, type.generics().def());
  __.out(" ");
  $(__, type.typeBuilderImpl().relative());
  __.out(" ");
  $(__, type.factoryBuilder().applied());
  __.out(" () {").ln();
  __.out(" return new ");
  $(__, type.typeBuilderImpl().relativeRaw());
  $(__, type.generics().diamond());
  __.out("();").ln();
  __.out(" }").ln();
  __.out(" ");
}
___.dl(); ___.ln();
___.out(" ");
___.dl(); _it2.index++;
_it2.first = false;
}
___.dl(); ___.ln();
___.out(" ");
$(___. generateImmutable, v, $$false);
___.ln();
___.out(" ");
___.dl();
if ($if(v.isGenerateWithInterface())) {
  ___.dl();___.ln();
  ___.out(" ");
  $(___, generateWithInterface, v, $$false);
  ___.ln();
  ___.out(" ");
}
___.dl();___.ln();
___.dl();_it2.index++;
_it2.first = false;
}
___.dl();___.ln();
___.dl();
if ($if(topLevel)) {
  ___.dl();___.ln();
  ___.out(" ");
  $(___, objectsUtility, type);
  ___.ln();
}
___.dl();___.ln();
___.dl();
if ($if($($(topLevel, and, $(type.isGenerateJdkOnly(), and, type.isUseCollectionUtility()))))) {
  ___.dl();___.ln();
  ___.out(" ");
  $(___, collectionUtility, type);
  ___.ln();
}
___.dl();___.ln();
___.dl();
if ($if(type.detectAttributeBuilders())) {
  ___.dl();___.ln();
  ___.out(" ");
  $(___, attributeBuilderTransformUtilities, type);
  ___.ln();
}
___.dl();___.ln();
___.dl();
if ($if(type.detectAttributeBuilders())) {
  ___.dl();___.ln();
  ___.out(" ");
  $(___, attributeBuilderTransformUtilities, type);
  ___.ln();
}
___.dl();___.ln();
___.out(""").ln();
___.dl();_it1.index++;
_it1.first = false;
}
org.immutables.generator.Templates.Invokable extendsImplements() { return extendsImplements; }
private final org.immutables.generator.Templates.Invokable extendsImplements = new FragmentDispatch(1, 5);
void _5__extendsImplements(org.immutables.generator.Templates.Invocation __) {
__dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__dl();
if ($if(type.isImplementing())) {
__dl();__ln();
__out("implements ");
$__(__, type.typeAbstract());
__dl();
if ($if(type.serial.shouldImplement())) {
__dl();__out("java.io.Serializable");
}
__dl();__out(" ").ln();
} else {
__dl();__ln();
__out("extends ");
$__(__, type.typeAbstract());
__dl();
if ($if($not, type.serial.shouldImplement())) {
__dl();__out(" ");
}
__dl();__ln();
__out("implements java.io.Serializable ");
}
__dl();__ln();
__}
org.immutables.generator.Templates.Invokable generateSerialization() { return generateSerialization; }
private final org.immutables.generator.Templates.Invokable generateSerialization = new FragmentDispatch(1, 6);
void _6__generateSerialization(org.immutables.generator.Templates.Invocation __) {
__dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
$(__, serialVersionUID, type);
if ($if(type.serial.isSimple())) {
  __dl();__ln();
  __out("  ");
  __dl();
}
if ($if(type.isUseSimpleReadResolve())) {
  __dl();__ln();
  __ln();
  __out("private Object readResolve() throws java.io.ObjectStreamException ",).ln();
  __dl();
}
if ($if(type.isUseSingletonOnly())) {
  __dl();__dl();__ln();
  __out(" return INSTANCE;").ln();
} else if ($if($($if(type.isUsePrehashed(), and, type.isUseCopyConstructor())))) {
  __dl();__ln();
  __out(" ");
  $___. generateReturnCopyRaw, type, "", "");
  __ln();
}

{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
 final java.lang.Boolean qualified_validated_1881291508 = $cast($$false);
 final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
   @Override public void run(org.immutables.generator.Templates.Invokation __) {
     __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
     __out("this");
     __dl();
   });__dl();__dl();
} __dl();
if ($if(type_validated_1881291508.isUseValidation())) {
  __dl();
  if ($if(qualified_validated_1881291508)) {
    __dl();$___. type_validated_1881291508.typeImmutable().relativeRaw();
    __out(".");
  }
  __dl();__out("validate(");
  $($. expression_validated_1881291508);
  __out(")");
}
else {
  __dl();$($. expression_validated_1881291508);
}
__dl();
}
if ($if(type.serial.isStructural())) {
  __dl();__ln();
  __out("/**");ln();
  __out(" * The serialized form captures the structural content of the value object,");ln();
  __out(" * providing the ability to reconstruct values with the capability to migrate");ln();
  __out(" * data. Uses optional, nullable, and provides flexible handling of");ln();
  __out(" * collection attributes.");ln();
  __out(" */");ln();
  $__(__, atGenerated, type);
  __ln();
  __dl();
  if ($if(type.generics())) {
    __dl();__ln();
    __out("@SuppressWarnings("unchecked")");ln();
  }
  __dl();__ln();
  __out("private static class SerialForm");
  $__(__, type.generics());
  __out(" implements java.io.Serializable");ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   final java.lang.Long serialVersion = $cast(type.serialVersionUID());
   final java.lang.String arr = $cast("[");
   final java.lang.String arri = $cast("[i");
   __dl();__ln();
   __out("private static final long serialVersionUID = ");
   __dl();
   if ($if(serialVersion)) {
     __dl();$__(_it1, literal, serialVersion);
   } else {
     __dl();$__("0L");
   }
   final java.lang.String arri = $cast("[i");
   __dl();__ln();
   __out("private static final long serialVersionUID = ");
   __dl();
   if ($if(serialVersion)) {
     __dl();$__(_it1, literal, serialVersion);
   } else {
     __dl();__out("0L");
   }
  }
}
private final String names;
  private final Object values;
  SerialForm(instance) {
    this.names = new String[];
    this.values = new Object[];
  }
  Object readResolve() {
    return INSTANCE;
  }
} else {
  java.util.List<String> names = new java.util.ArrayList<String>(size);
  java.util.List<Object> values = new java.util.ArrayList<Object>(size);
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute v2 : $in(v.getItems())) {
        if ($if(v2.isCollectionType())) {
          if ($if(v2.isNullable())) {
            
          } else {
            
          }
        }
      }
    }
  }
}
```java
__.dl();__.out("if (instance.");
$.(__. v.names.get);
__.out("() == null) {".ln();
__.out("      names.add("";
$.(__. v.name());
__.out("\n");.ln();
__.out("      values.add(null);".ln();
__.out("    } else ");

} __.dl();__.out("if (instance.");
$.(__. v.names.get);
__.out("().isEmpty()) {".ln();
__.out("      names.add("";
$.(__. v.name());
__.out("\n");.ln();
__.out("      values.add(instance.";
$.(__. v.names.get);
__.out("().toArray());".ln();
__.out("  }".ln();
__.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();__.out("if (instance.");
    $.(__. v.names.get);
    __.out("() == null) {".ln();
    __.out("      names.add("";
    $.(__. v.name());
    __.out("\n");.ln();
    __.out("      values.add(null);".ln();
    __.out("    } else ");

} __.dl();__.out(" if (!instance.";
$.(__. v.names.get);
__.out("().isEmpty()) {".ln();
__.out("      names.add("";
$.(__. v.name());
__.out("\n");.ln();
__.out("      values.add(toArray(instance.";
$.(__. v.names.get);
__.out("().toArray());".ln();
__.out("  }".ln();
__.out(" ");
} else if ($if(v.isMultimapType())) {
  __.dl();__.out("if (instance.";
  $.(__. v.names.get);
  __.out("().isEmpty()) {".ln();
  __.out("      names.add("";
  $.(__. v.name());
  __.out("\n");.ln();
  __.out("      values.add(toArray(instance.";
  $.(__. v.names.get);
  __.out("().");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();__.out("if (instance.");
    $.(__. v.names.get);
    __.out("() == null) {".ln();
    __.out("      names.add("";
    $.(__. v.name());
    __.out("\n");.ln();
    __.out("      values.add(null);".ln();
    __.out("    } else ");

} __.dl();__.out(" if (!instance.";
$.(__. v.names.get);
__.out("().isEmpty()) {".ln();
__.out("      names.add("";
$.(__. v.name());
__.out("\n");.ln();
__.out("      values.add(toArray(instance.";
$.(__. v.names.get);
__.out("()");
__.dl();
```
} else {
   __dl();__out("entrySet");
}

__dl();__out("()");__ln();
__out("  ");__ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
__dl();__ln();
__out(" if (instance.");
$(__.v.names.get);
__out("().");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
   __dl();__out("isDefined");
}
} else {
   __dl();__out("isPresent");
}

__dl();__out("()");

__out(" ");__ln();
__out(" names.add(\"\");"m");
$__v.name();
__out("\"\");__ln();
__out(" values.add(instance.");
$__v.names.get;
__out("().");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
__dl();
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional(), or,
a_optionalGet_168307643.isJavaslangOptional())) {
   __dl();__out("getAs");
} else {
   __dl();__out("get");
}

__dl();__out("()");

__out(" ");__ln();
__out(" ");__ln();
```java
@Override
public void run(Templates.Invokation __) {
__dl();__$__(type.factoryBuilder().relative());
__out("()" );
__dl();
})
__out(";").ln();
__ln();
__out(" for (int i = 0; i < names.length; i++) { ").ln();
__out(" String name = names");
__$(__, "[i]" );
__out(";" ).ln();
__out(" ");

[final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
__dl();__ln();
__out(" if (" );
__$(__, v.name());
__out(".equals(name) ) { ").ln();
__out(" ");
__dl();
if ($if(v.isCollectionType())) {
__dl();__ln();
__out(" ");
__dl();
if ($if(v.isNullable())) {
__dl();__ln();
__out(" if (values") ;
__$(__, arri);
__out(" == null ) { ").ln();
__out(" builder. ");
__$(__, v.names.init);
__out("(null);" ).ln();
__out(" continue; ").ln();
__out(" } ").ln();
__out(" ");
}
__dl();__ln();
__out(" for (Object e : toArray(values");
__$(__, arri);
__out(" ) { ").ln();
__out(" builder.");
__$(__, v.names.add());
__out(" ");
[final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($if(typeName_castObject_2078309443, ne, "java.lang.Object"))) {

````
final java.lang.String j = $cast("[j]";
final java.lang.String j1 = $cast("[j + 1]";
__dl();__ln();
__out("    builder.");
$__ v.names.put();
__out("();
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object")) {
  __dl();__out("();
  $__ typename_castObject_2078309443;
  __out(" ");
}
__dl();
}
__out("entries");
$__ j;
__out(,";
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedSecondaryElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object")) {
  __dl();__out("();
  $__ typename_castObject_2078309443;
  __out(" ");
}
__dl();
}
__out("entries");
$__ j1;
__out(";").ln();
__out(" ");
__dl()/_it3.index++;
/_it3.first = false;
}
__dl();__ln();
__out(" ");.ln();
__out(" ");.ln();
__out(" ");.ln();
} else if ($if(v.isOptionalType()) {
  __dl();__ln();
  __out(" if (values");
  $__ arri;
  __out(" != null) ");.ln();
  __out(" builder.");
}
$(__, v.names.init);
__out("(");

[final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($(typename_castObject_2078309443, ne, "java.lang.Object")) {
    __dl();__out("(");
    $(__, typename_castObject_2078309443);
    __out(" ");
}
__dl();
__out("values");
$__r;
__out(")").ln();
__out("  ").ln();
__out(" ");
} else if ($(v.isNullable())) {
    __dl();__ln();
    __out(" if (values");
    $(__, arri);
    __out(" != null) { ").ln();
    __out("    builder.");
    $(__, v.names.init);
    __out("(");

[final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($(typename_castObject_2078309443, ne, "java.lang.Object")) {
    __dl();__out("(");
    $(__, typename_castObject_2078309443);
    __out(" ");
}
__dl();
__out("values");
$__r;
__out(")").ln();
__out("  ").ln();
__out(" ");
} else if ($(v.isArrayType())) {
    __dl();__ln();
    __out("    builder.");
    $(__, v.names.init);
    __out("(");

[final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($(typename_castObject_2078309443, ne, "java.lang.Object")) {
    __dl();__out("(");
    $(__, typename_castObject_2078309443);
    __out(" ");
}
__dl();
__out("values");
$__r;
__out(")").ln();
__out("  ").ln();
__out(" ");
} else if ($(v.isArrayType())) {
    __dl();__ln();
    __out("    builder.");
    $(__, v.names.init);
}
__dl();__out("(");
$___.typename_castObject_2078309443;
__out(" ");
}
__dl();
}
__out("values");
$___.arri;
__out(".");ln();
__out(" ");
} else {
__dl();__ln();
__out(" builder.");
$___.v.names.init;
__out("(");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($(typename_castObject_2078309443, ne, "java.lang.Object")) {
__dl();__out("(");
$___.typename_castObject_2078309443;
__out(" ");
}
__dl();
__out("toListSingle("\n");
$___.v.name();
__out("","values");
$___.arri;
__out(".");ln();
__out(" ");
}
__dl();__ln();
__out(" continue;").ln();
__out("}.");ln();
__out(" ");
__dl();_it2.index++;
_it2.first = false;
}}
__dl();__ln();
__out("}").ln();
__out(" return builder.");
$___.type.names().build;
__out("();").ln();
else {
    __dl();__ln();
    __out(" ");
    {final org.immutables.generator.Templates.Iteration _it2 = new
     org.immutables.generator.Templates.Iteration();
     final java.util.List<org.immutables.value.processor.meta.ValueAttribute> constructables =
     $cast(type.getConstructableAttributes());
     __dl();__ln();
     __out(" ");
     {final org.immutables.generator.Templates.Iteration _it3 = new
      org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute v : $in(constructables)) {
        __dl();__ln();
        __out(" ");
        if ($(v.isCollectionType(), or, v.isMapType())) {
          __dl();__ln();
          __out(" ");
          $(__, createBuilderForCollection, type, v, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              __dl();$__v.name());
              __out(" Builder");
              __dl();
            }});}__ln();
          __out(" ");
        } else if ($(v.isOptionalType())) {
          __dl();__ln();
          __out(" ");
          $__v.getType();
          __out(" ");
          $(__, v.name());
          __out("Value = ");
          {final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
           $(__, a_optionalEmpty_1867206284.getRawType());
           __out(".");
           __dl();
           if ($(a_optionalEmpty_1867206284.isJdkOptional(), or, a_optionalEmpty_1867206284.isFugueOptional(), or,
            a_optionalEmpty_1867206284.isJavaslangOptional())) {
             __dl();__out("empty");
           } else if ($(a_optionalEmpty_1867206284.isJdkOptional(), or, a_optionalEmpty_1867206284.isFugueOptional(), or,
            a_optionalEmpty_1867206284.isJavaslangOptional())) {
             __dl();__out("none");
           } else {
             __dl();__out("absent");
           }
        }
        __dl();__out("()");
      }
    }
  }
}

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if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
  __dl();__out("@javax.annotation.Nullable ");
}

$__(), v.getWrapperType();
__out(" ");
$__(), v.name();
__out("Value = null;").ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl():_it3.index++; _it3.first = false;
})
__dl();__ln();
__ln();
__out(" for (int i = 0; i < names.length; i++) { ").ln();
__out(" String name = names");
$__(), ".[i]";
__out(";");ln();
__out(" ");
}

for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(constructables)) {
  __dl();__ln();
  __out(" if (" );
  $__(), v.name();
  __out("v.equals(name)) { ").ln();
  __out(" ");
  __dl();
  if ($if(v.isCollectionType())) {
    __dl();__ln();
    __out(" ");
    __dl();
  }
}
if ($if(v.isNull())) {
    __.dl();__.ln();
    __.out("    if (values");
    $(___. arri);
    __.out(" == null) {".ln();
    __.out("    ");
    $(___. v.name());
    __.out("Builder = null;"asmine;).ln();
    __.out("    continue;"asmine;).ln();
    __.out("    ");
}
___.dl();__.ln();
___.out("    for (Object e : toArray(values");
$(__, arri);
___.out(")) {".ln();
___.out("    ");
$(__, v.name());
___.out("Builder.add("asmine;");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
    __.dl();
    if ($if($typename_castObject_2078309443, ne, "java.lang.Object")) {
        __.dl();__.out("(");
        $(typename_castObject_2078309443);
        __.dl();
        __.out("e);"asmine;).ln();
        __.out("    ");
    }
} else if ($if(v.isMapType())) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
    if ($if(v.isNull())) {
        __.dl();__.ln();
        __.out("    if (values");
        $(__, arri);
        __.out(" == null) {".ln();
        __.out("    ");
        $(__, v.name());
        __.out("Builder = null;"asmine;).ln();
        __.out("    continue;"asmine;).ln();
        __.out("    ");
    }
__dl();__ln();
__out("  Object");
$(__, arr);
__out(" entries = (Object");
$(__, arr);
__out(") values");
$(__, arr);
__out(";").ln();
__out(" if (entries != null) {").ln();
__out(" for (int j = 0; j < entries.length; j += 2) {").ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
final java.lang.String j = $cast("[j]");
final java.lang.String j1 = $cast("[j + 1]");
__dl();__ln();
__out(" ");
$___. v.name());
__out("Builder.put()");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
  __dl();__out("(");
  $(__, typename_castObject_2078309443);
  __out(" ");
}
__dl();
}
__out("entries");
$(__, j);
__out(" , ");
{final java.lang.String typename_castObject_2078309443 =
$cast(v.getWrappedSecondaryElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
  __dl();__out("(");
  $(__, typename_castObject_2078309443);
  __out(" ");
}
__dl();
}
__out("entries");
$(__, j1);
__out(";").ln();
__out("          ");
__dl();_it4.index++;
_it4.first = false;
}
__dl();__ln();
__out("          ");
__out("        ");
__out("      ");
}
else if ($if(v.isOptionalType())) {
__dl();__ln();
__out("        if (values"");
$__(); arri;
__out(" != null) {").ln();
__out("        ");
$__(); v.name();
__out("Value = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_33297268 = $cast(v);
$__().a_optionalOf_33297268.getRawType();
__out(".");
__dl();
if ($if($(not, a_optionalOf_33297268.isOptionalAcceptNullable()))) {
__dl();
if ($if($(a_optionalOf_33297268.isFugueOptional(), or,
a_optionalOf_33297268.isJavaslangOptional()))) {
__dl();__out("some");
}
else {
__dl();__out("of");
}
}
__dl();} else if ($if(a_optionalOf_33297268.isJdkOptional())) {
__dl();__out("ofNullable");
}
else if ($if(a_optionalOf_33297268.isFugueOptional())) {
__dl();__out("option");
}
else if ($if(a_optionalOf_33297268.isJavaslangOptional())) {
__dl();__out("of");
}
else {
__dl();__out("fromNullable");
}
__dl();
__out("(");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out("(");
}
final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__ln();
__out(" ");
$(__, typename_castObject_2078309443);
__out(" ");
}
else if ($if($(v.isNullable(), or, v.isArrayType()))) {
__dl();__ln();
__out(" ");
$(__, v.name());
__out("Value = ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out(" ");
$(__, typename_castObject_2078309443);
__out(" ");
}
__dl();
}
else {
__dl();__ln();
__out(" ");
$(__, v.name());
__out("Value = ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out(" ");
$(__, typename_castObject_2078309443);
__out(" ");
}
__dl();
}
__out("toSingle("");
$(__, v.name());
}
__out("", values");
$___.out(";").ln();
$___.out(""");
}
__dl();__ln();
__out("  continue;").ln();
__out("  ");
__dl();__it3.index++;
__it3.first = false;
}
__dl();__ln();
__out("  ");ln();
__out("  ");
__dl();
if ($if(type.isUseConstructor())) {
  __dl();__ln();
  __out("  ");
  $___.type.typeValue().relative();
  __out(" instance = ");
  $___.type.factoryOf().relative();
  __out(" ");
  $___.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();{final org.immutables.generator.Templates.Iteration _it3 = new
    org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
        __dl();
        if ($if($(not, _it3.first))) {
          __dl();__out(",");
        }
        __dl();__ln();
        __out("  ");
        __dl();
        if ($if($(v.isCollectionType(), or, v.isMapType()))) {
          __dl();$___.out("Builder == null ? null : ");
          __dl();$___.createBuiltCollection, type, v, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              __dl();$___.out("Builder");
            }
          }
        }
        __dl();__ln();
        __out("  ");
        __dl();
        if ($if($($(v.isCollectionType(), or, v.isMapType())))) {
          __dl();__dl();
          if ($if(v.isNullable())) {
            __dl();$___.out("Builder");
          }
          __dl();$(___.name());
          __out("Builder == null ? null : ");
        }
        __dl();$_};
    }
  }
}
```java
__dl();
})

} else {
__dl();$(__, v.name());
__out("Value");

}
__dl();__dl();_it3.index++;
_it3.first = false;
}
__dl();__out(";");
__dl();
})
__ln();
__out(" ");
} else if ($if(type.isUseSingleton())) {
__dl();__ln();
__out(" ");
$(__, type.typeValue().relative());
__out(" instance = ");
$(__, type.factoryInstance().relative());
__out("();").ln();
__out(" ");

}
} else {
__dl();__ln();
__out(" ");
$(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();__out("Cannot generate code when there are no builder, constructor or singleton available");
__dl();
})
__ln();
__out(" ");

}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute o : $in(type.getWithSettableAfterConstruction())) {
__dl();__ln();
__out(" ");
__dl();
if ($if($o.isCollectionType(), or, $o.isMapType())) {
__dl();__ln();
```
instance = null ? null : Builder = null ? null : Builder = Builder
    return instance;
} else {
    if (Value != null) {
      instance = instance.
    } else {
    
  }

}
private static Object toSingle(String attribute, Object value) {
    if (value instanceof Object
         elements = (Object
         if (elements.length == 1) {
            return elements;
        } else {
            throw new 
                
        
    } else {
        return value;
    }
}

private static ObjecttoArray(
    final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
    if ($if($hasSettableCollection)) {}
if ($if(type.hasSettableMapping()) { {
  private static Object
  toArray(java.util.Collection<? extends java.util.Map.Entry<?, ?>> entries) {
    Object
    data = new Object
    [entries.size() * 2];
    int p = 0;
    for (java.util.Map.Entry<?, ?> e : entries) {
      data
      [p++] = e.getKey();
      data
      [p++] = e.getValue();
    }
    return data;
  }
}
__dl();__l();
__out("private Object writeReplace() {").ln();
${(_, type.generics().args());
__out("(this)").ln();
__out("}"").ln();
}
__dl();__l();
__dl();

org.immutables.generator.Templates.Invokable generateWithInterface() { return generateWithInterface; }
private final org.immutables.generator.Templates.Invokable generateWithInterface = new FragmentDispatch(2, 7);
void _t7__generateWithInterface(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  $(__, packageWhenTopLevel, type, topLevel);
  $(__, annotationsWhenTopLevel, type, topLevel);
  $(__, type.typeWith().access());
  __out("interface ");
  $(__, type.typeWith().simple());
  $(__, type.generics());
  __out(" {");
  __out(" ");
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __dl();__l();
    __out(" ");
    if ($if(v.isArrayType())) {
      __dl();__l();
      __out(" /*");
      __out(" * Copy the current immutable object with elements that replace the content of ");
    }
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    __out(" */");
    __out(" */");
    __out(" */");
    __out(" */");
    __out(" */");
    __out(" */");
  }
}
* The array is cloned before being saved as attribute values.*

* @param elements The non-null elements for *

* @return A modified copy of { @code this } object

* @Deprecated

* Copy the current immutable object with elements that replace the content of *

* @param elements The elements to set

* @return A modified copy of { @code this } object

* @Deprecated

* Copy the current immutable object with elements that replace the content of *
if ($if($a_varargsSafetyAbstract_2026977502.isNonRawElementType(), or,
a_varargsSafetyAbstract_2026977502.hasTypeVariables)) {
    __dl();__out("@SuppressWarnings("varargs")");
}
__dl();
__ln();
__out(" ");
$__.$(__, type.typeAbstract().relative());
__out(" ");
$__.$(__, v.names.with);
__out("(");
$__.$(__, v.getUnwrappedElementType());
__out("... elements");).ln();
__ln();
__out(" */*").ln();
__out(" * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__.$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(".").ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning
{ @code this }. ");.ln();
$__.$(__, v.name());
__out(" elements to set").ln();
__out(" * @return A modified copy of { @code this } object").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
$__.$(__, type.typeAbstract().relative());
__out(" ");
$__.$(__, v.names.with);
__out("(Iterable<");}
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```java
$.v.getConsumedElementType();
__out("=> elements;").ln();
__out("   ");
} else if ($if(v.isOptionalType()) { }
__dl();__ln();
__ln();
__out("  /**");ln();
__out("   * Copy the current immutable object by setting a <i>present</i> value for the optional ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw;
}
__out("  */\n\n  * @param value The value for ");ln();
$.v.name();
__dl();
if ($if(v.isOptionalAcceptNullable()) { }
__dl();__out("", [@code null] is accepted as [@code ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$.a_optionalEmpty_1867206284.getRawType();
__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
__dl();__out("empty");
} else if ($if(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()) {
__dl();__out("none");
} else {
__dl();__out("absent");
}
__dl();__out("()");
}
__out("}");
}
__dl();__ln();
__out("  */\n\n  * @return A modified copy of [@code this] object");ln();
__out("  */");ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated) {
__dl();__out("@Deprecated");
}
```
__dl();
}
__ln();
__out(" ");
$___.type.typeAbstract().relative();
__out(" ");
$___.v.names.with();
__out("(");

{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
__dl();
if ($if($(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {
  __dl():$___.atNullable, a_unwrappedOptionalType_1615308684;
  $(___, a_unwrappedOptionalType_1615308684.getWrappedElementType());
} else {
  __dl():$___.a_unwrappedOptionalType_1615308684.getUnwrappedElementType();
}
__dl();
}
__out(" value;").ln();
__ln();
__out(" */* ");.ln();
__out(" * Copy the current immutable object by setting an optional value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(___, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" attribute.");.ln();
__out(" * A shallow reference equality check on the optional value is used to prevent copying of the same value by returning [@code this].").ln();
__out(" * @param optional A value for ");
$___.v.name();
__ln();
__out(" * @return A modified copy of [@code this] object").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl():__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
$(___.type.typeAbstract().relative());
$.out(" ");
$(___.v.names.with);
$.out(" ");
$(___.v.getRawType());
$.dl();
if ($(if(!$(v.isJdkSpecializedOptional()))) {
  $.dl();$.out("<");
$(___.v.getConsumedElementType());
$.out(" optional");
}
}.dl();$.out(" ");
} else if ($(v.isMapType())) {
$.dl();$.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
$.dl();$.ln();
$.ln();
$.out("/**").ln();
$.out(" * Copy the current immutable object by replacing the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$.ln();
}@code this }. ").ln();
$.out(" * @param entries The entries to be added to the ");
$.out(" * Nulls are not permitted as keys or values.").ln();
$.out(" * A shallow reference equality check is used to prevent copying of the same value by returning 
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
}.dl();
if ($(if(a_deprecation_286924011.deprecated)) {
  $.dl();$.out("@Deprecated");
}
).dl();
__ln();
__out(" ");
$(__, type.typeAbstract().relative());
__out(" ");
$__ v.names.with;
__out("(");
__dl();
if ($if(v.isMultimapType())) {
    __dl();$(__, guava);
    __out(".collect.Multimap");
} else {
    __dl();__out("java.util.Map");
}
__dl();__out("<");
$__ gE;
__out(", ? extends ");
$__ wV;
__out("> entries;").ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" ");
}

})
__out(" ");
$__ gE;
__out(" /\*\*\*\*").ln();
__out(" * Copy the current immutable object by setting a value for the ");
}{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__ sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

})
__out(" attribute.").ln();
__out(" ");
__dl();
if ($if($v.isPrimitive(), andnot, v.isFloatType())) {
    __dl();__ln();
    __out(" * A value equality check is used to prevent copying of the same value by returning {@code this}.\`).ln();
    __out(" ");
} else if ($if($not, v.isPrimitive())) {
    __dl();__ln();
    __out(" * A shallow reference equality check is used to prevent copying of the same value by returning

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{code this
  * @param value A new value for
  * @return A modified copy of the {code this} object
 */

  if (isNullable())
    (can be {code null})

  if (a_deprecation) {
    @Deprecated
  }

  generateJsonWithUnsupported() { return
  }

  org.immutables.generator.Templates.Invokable generateJsonWithUnsupported() { return

private final org.immutables.generator.Templates.Invokable generateJsonWithUnsupported = new FragmentDispatch(1, 8);

void _t8__generateJsonWithUnsupported(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.isGenerateWithInterface())) {
    __dl();__ln();
    __dl();__ln();
    __out("  ");
    if (!$if(v.isCollectionType())) {
      __dl();__ln();
      __dl();
      __out("  ");
      __out(" ");
      __dl();
      if ($if(v.isArrayType())) {
        __dl();__ln();
        __out("@Override").ln();
        if (!$if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
          a_varargsSafety_1368213209.hasTypeVariables)) {
          __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
        }
        __dl();
        __ln();
        __out("public final ");
        $___.type.typeAbstract().relative();
        __out(" ");
        $___.v.names.with();
        __out(" ");
        $___.v.getElementType();
        __out("... elements { throw new UnsupportedOperationExce...  ");
        __out("  ");
      } else if ($if(v.isCollectionType())) {
        __dl();__ln();
        __out("@Override").ln();
        if (!$if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
          a_varargsSafety_1368213209.hasTypeVariables)) {
          __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
        }
        __dl();
      }
    }
  }
}

__.ln();
__.out("public final ");
$___.type.typeAbstract().relative();
__.out(" ");
$___.v.names.with();
__.out("(");
$___.v.getUnwrappedElementType();
__.out("... elements) { throw new UnsupportedOperationException(); }").ln();
__.out("@Override").ln();
__.out("public ");
$___.type.typeAbstract().relative();
__.out(" ");
$___.v.names.with();
__.out("(Iterable<");
$___.v.getConsumedElementType();
__.out("> elements) { throw new UnsupportedOperationException(); }").ln();
__.out(" ");
} else if ($if(v.isOptionalType())) {
___.dl();__.ln();
__.out("@Override").ln();
__.out("public ");
$___.type.typeAbstract().relative();
__.out(" ");
$___.v.names.with();
__.out("");
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
___.dl();
if ($if($(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable()))) {
___.dl();$___.atNullable, a_unwrappedOptionalType_1615308684;
$___.a_unwrappedOptionalType_1615308684.getWrappedElementType();
} else {
___.dl();$___.a_unwrappedOptionalType_1615308684.getUnwrappedElementType();
}
___.dl();
__.out(" value) { throw new UnsupportedOperationException(); }").ln();
__.out("@Override").ln();
__.out("public ");
$___.type.typeAbstract().relative();
__.out(" ");
$___.v.names.with();
__.out("(");
$___.v.getRawType();
___.dl();
if ($if($not, v.isJdkSpecializedOptional())}) {
}
__.dl();__.out("<");
$___. v.getConsumedElementType();
__.out(">");
}
__.dl();__.out(" optional").ln();
$___.out(" ");
} else if ($if(v.isMapType())
$___.dl();__.ln();
$___.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
$___.dl();__.ln();
$___.out("@Override").ln();
$___.out("public ");
$___.type.typeAbstract().relative();
$___.out(" ");
$___.v.names.with();
$___.out("(");
$___.dl();
if ($if(v.isMultimapType())
$___.dl();$___.guava);
$___.out(".collect.Multimap");

} else {
$___.dl();__.out("java.util.Map");
}

$___.dl();__.out("<");
$___.gE;
$___.out(",
 ? extends ");
$___.wV;
$___.out("> entries\} throw new UnsupportedOperationException(); ]\).ln();
$___.out(" ");
$___.it2.index++;
_it2.first = false;
}
$___.dl();__.ln();
$___.out(" ");
}
else {
$___.dl();__.ln();
$___.out("@Override").ln();
$___.out("public ");

$(__, type.typeAbstract().relative());
__out(" ");
__$(__, v.names.with);
__out("(");
__$(__, v.atNullability());
$___.out(" value) { throw new UnsupportedOperationException(); } ").ln();
__$_.out(" ");
}
___.dl();___.ln();
___.out(" ");
___.dl();_.it1.index++;
_.it1.first = false;
}
___.dl();___.ln();
___.dl();___.ln();
___.dl();
}
org.immutables.generator.Templates.Invokable generateInterning() { return generateInterning; }
private final org.immutables.generator.Templates.Invokable generateInterning = new FragmentDispatch(1, 9);
void _t9__generateInterning(org.immutables.generator.Templates.Invokation __) {
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(___.param(0));
___.ln();
___.dl();
if ($if($(type.isUseStrongInterned(), or, type.isGenerateOrdinalValue()))) {
___.dl();___.ln();
___.out(" ");
___.dl();
if ($if($(not, type.isUseSingletonOnly()))) {
___.dl();___.ln();
___.out(" ");
___.ln();
$___.out(" private static class InternProxy { ").ln();
___.out(" final ");
$___.atGenerated, type);
___.ln();
___.out(" private static class InternProxy ").ln();
___.out(" final ");
$___.type.typeImmutable().relativeRaw());
___.out(" instance;").ln();
___.ln();
___.out(" InternProxy(");
$___.type.typeImmutable().relativeRaw());
___.out(" instance) { ").ln();
___.out(" this.instance = instance; ").ln();
___.out(" ").ln();


// Implementation of equals and hashCode methods

 overridden public boolean equals(Object another) {
      return another != null && instance.equalTo(((InternProxy) another).instance);
    }

 overridden public int hashCode() {
      return instance.hashCode();
    }

 private $<type>($<type> instance, int ordinal) {
    this.$<name>() = instance.$<name>();
  }

 if ($<if(type.isGenerateOrdinalValue())) {
    /**
     * Copy constructor used for interning of objects implementing
     * @link org.immutables.ordinal.OrdinalValue
     */
    private $<type>$<type>$<simple>()
    {
      $<name>() = this;
    }
  }

$<type>$<simple>();

$<type>$<relative>();

Instance(int ordinal) {
  this.

}$<type>$<implementedAttributes()());

for ($<if(final org.immutables.value.processor.meta.ValueAttribute v : $<sin(type.getImplementedAttributes())())} {
  ...
  this.
  $<v.name()();
  $<v.name()();
}
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```java
__out(";").ln();
__out(" ");
__dl();__it1.index++;
__it1.first = false;
}
__dl();__ln();
__out(" ");
__dl();
if ($if(type.isUsePrehashed()) {
  __dl();__ln();
  __out("  this.hashCode = instance.hashCode;").ln();
  __out(" ");
}
__dl();__ln();
__out("  this.domain = instance.domain;").ln();
__out("  this.ordinal = ordinal;").ln();
__out(" ");
__ln();
__out(" /**").ln();
__out(" * Instances of { @code ");
$(__, type.name());
__out(" } will be interned and registered with the domain.").ln();
__out(" */").ln();
__out(" ");
$(__, atGenerated, type);
__ln();
__out(" public static final class Domain");ln();
__out(" extends org.immutables.ordinal.InterningOrdinalDomain<InternProxy, ");
$(__, type.typeAbstract());
__out("> { ");ln();
__ln();
__out(" private static final Domain INSTANCE = new Domain();");ln();
__ln();
__out(" /** Construct the ordinal domain of ");
$(__, type.name());
__out(" values. */").ln();
__out(" public Domain() { }");ln();
__ln();
__out(" protected ");
$(__, type.typeAbstract());
__out(" extractValue(InternProxy proxy, int ordinal) {}").ln();
__out(" return new ");
$(__, type.typeImmutable().relative());
$(__, type.generics().diamond());
__out("(proxy.instance, ordinal;").ln();
__out(" ");ln();
```

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```java
    @Override
    public String toString() {
      if (this == INSTANCE) return ""
    }
    return
    .toString();
    }

    /**
     * Retrieves the static singleton instance of [@link OrdinalDomain].
     * All instances that were not built with the specified domain will be bound to a static domain.
     * @return The ordinal domain of all instances
     */
    public static Domain get() {
      return INSTANCE;
    }

  }

  @Override
  public org.immutables.ordinal.OrdinalDomain<
  if ($if(type.isGenerateJdkOnly())) {
  private static final java.util.Map<
  if ($if(type.isUseWeakInterned())) {
    private static final java.util.Map<
```

```java
  if ($if(type.isGenerateJdkOnly())) {
  private static final java.util.Map<
  if ($if(type.isUseWeakInterned())) {
    private static final java.util.Map<
```
__out(">> INTERNER =").ln();
__out("    new java.util.WeakHashMap<>();").ln();
__out("    ");
}

} else {
  __dl();__ln();
  __out("    ");
  __dl();
  if ($if(type.isUseWeakInterned()) {
    __dl();__ln();
    __out("    private static final java.util.concurrent.ConcurrentHashMap<InternProxy, ");
    *___.type.typeImmutable().relative();
    __out(" INTERNER =").ln();
    __out("    new java.util.concurrent.ConcurrentHashMap<InternProxy, ");
    *___.type.typeImmutable().relative();
    __out("();").ln();
    __out("    ");
  }

  __dl();__ln();
  __out("    ");

  __dl();__ln();
  __out("    ");
  __dl();
  if ($if(type.isUseWeakInterned()) {
    __dl();__ln();
    __out("    private static final ");
    *___.guava;
    __out(" .collect.Interner<");
    *___.type.typeImmutable().relative();
    __out(" INTERNER = ");
    *___.guava;
    __out(" .collect.Interners.newWeakInterner();").ln();
    __out("    ");
  }

  __dl();__ln();
  __out("    ");

  __dl();__ln();
  __out("    private static final ");
  *___.guava;
  __out(" .collect.Interner<InternProxy> INTERNER = ");
  *___.guava;
  __out(" .collect.Interners.newStrongInterner();").ln();
  __out("    ");

  __dl();__ln();
  __out("    ");

  __dl();__ln();
org.immutables.generator.Templates.Invokable generateConstruction() { return generateConstruction; }
private final org.immutables.generator.Templates.Invokable generateConstruction = new FragmentDispatch(1, 10);
void _t10__generateConstruction(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.dl();
    if ($if($type.isUseConstructor(), andnot, type.of().isNew())) {
        __.dl();___.ln();
        ___.out(" ");
        __.dl();
        if ($if(type.requiresAlternativeStrictConstructor())) {
            __.dl();___.ln();
            __.out(" /**").ln();
            __.out(" * Construct a new immutable { @code ");
            $(__, type.name());
            __.out(" } instance.").ln();
            $(__, javadocGenerics, type);
            __.ln();
            {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
                for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
                    __.dl();___.ln();
                    __.out(" * @param ");
                    $(__, v.name());
                    __.out(" The value for the { @code ");
                    $(__, v.name());
                    __.out(" attribute").ln();
                    __.dl();_it1.index++;
                    _it1.first = false;
                }
            }
            __.dl();___.ln();
            __.out(" * @return An immutable ");
            $(__, type.name());
            __.out(" instance").ln();
            __.out(" */").ln();
            __.out(" public static ");
            $(__, type.generics().spaceAfter());
            $(__, type.typeValue());
            __.out(" ");
            $(__, type.names().of);
            __.out(" ");
        }
    }
    __.ln();
}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __.dl();___.dl();
    if ($if(${not, _it1.first})) {
        __.dl();___.out(",
    }
    __.dl();___.dl();
   __$_.v.atNullability();
   __$_.eachLine, v.constructorParameterInjectedAnnotations();
   __$_.v.getType();
   __$_.___.out(" ");
   __$_.v.name();
   __$_.dl();_it1.index++;
    _it1.first = false;
} }
__$_.dl();__$_.out(")").ln();
__$_.out(" return ");
__$_.__$_.type.names().of();
__$_.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __.dl();___.dl();
    if ($if(${not, _it1.first})) {
        __.dl();___.out(",
    }
    __.dl();___.dl();
    if ($if(v.requiresAlternativeStrictConstructor())) {
        __.dl();___.out("(");
        _$_.constructorAcceptType, v);
        __.out(" ");
    }
    _$_.__$_.v.name();
    _$_.__$_.dl();_it1.index++;
    _it1.first = false;
}}
__$_.dl();__$_.out(";").ln();
__$_.out(" }").ln();
__$_.out(" ");
__$_.dl();__$_.ln();
__$_.ln();
__$_.out(" /*");
__$_.out(" * Construct a new immutable { @code ");
__$_.__$_.type.name();
__$_.out(" ] instance.");
__$_.ln();
__$_.__$_.javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl(); __ln();
  __out("  * @param ");
  __out(" The value for the { @code ");
  __out(" } attribute").ln();
  __dl(); _it1.index++; _it1.first = false;
}
__dl(); __ln();
__out("  * @return An immutable ");
$___. type.name();
__out(" instance").ln();
__out(" */").ln();
__out(" public static ");
$___. type.generics().spaceAfter();
$___. type.typeValue();
__out(" ");
$___. type.names().of();
__out("(");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl(); __dl();
  if ($if(!_it1.first)) {
    __dl(); __out(" , ");
  }
  __dl(); $_. v.atNullability();
  __out(" @");
  __out(" constructorParameterInjectedAnnotations()");
  __out(" constructorAcceptType, v");
  __out(" ");
  __out(" ");
  __dl(); _it1.index++; _it1.first = false;
}
__dl(); __out(")").ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($$$false);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
    __out(" new ");
    $(_. type.typeImmutable().relativeRaw());

$(___. type.generics().diamond());
  __.out("(");
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
    __.dl();
    if ($if($(not, _it1.first))) {
      __.dl();
      __.out(" , ");
    }
    __.dl();
    __.out(v.name());
    __.dl();
    _it1.index++;
    _it1.first = false;
  }
  __.dl();
  __.out(")");
  __.dl();
  __.dl();
  __.dl();
  __.dl();
  if ($if(type_validated_1881291508.isUseValidation())) {
    __.dl();
    if ($if(qualified_validated_1881291508)) {
      __.dl();
      __.out(".validate(");
      __.out(expression_validated_1881291508);
      __.out(")");
    } else {
      __.dl();
      __.out(expression_validated_1881291508);
    }
  } else {
    __.dl();
  }
  __.out(";").ln();
  __.out("  }").ln();
  __.out("  ");
  __.dl();
  if ($if(type.isUseOptionalAcceptNullableConstructor())) {
    __.dl();
    __.ln();
    __.ln();
    __.out("/**\n"");
    __.out(" Construct a new immutable\n  @code ");
    __.out("\n");
    __.out("\n");
    __.out("\n");
    __.out("\n");
    __.out("\n");
    __.out("\n");
    __.ln();
  } else {
  }
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {  
  __dl();__ln();  
  __out(" * @param ");  
  $__(-, v.name());  
  __out(" The value for the @code ");  
  $__(-, v.name());  
  __dl();__it1.index++;  
  __it1.first = false; }  
__dl();__ln();  
__out(" * @return An immutable ");  
$__(-, type.name());  
__out(" instance").ln();  
__out(" */").ln();  
__out(" public static ");  
$__(-, type.generics().spaceAfter());  
$__(-, type.typeValue());  
__out(" ");  
$__(-, type.names().of);  
__out(";");  
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();  
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {  
    __dl();__dl();  
    if ($if($(not, _it1.first))) {  
      __dl();__out(",");  
    }  
    __dl();$__(-, v.atNullability());  
    $__(-, eachLine, v.constructorParameterInjectedAnnotations());  
    __dl();  
    if ($if(v.isOptionalType())) {  
      __dl();(final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v));  
      __dl();  
      if ($if($a_unwrappedOptionalType_1615308684.isOptionalType(), and,  
          a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {  
        __dl();$__(-, atNullable, a_unwrappedOptionalType_1615308684);  
        $__(-, a_unwrappedOptionalType_1615308684.getWrappedElementType());  
      } else {  
        __dl();$__(-, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());  
      }  
    }  
  }  
} else {  
  __dl();  
}  
} else {  
  __dl();
```java
(fun $(_ constructorAcceptType, v) {)
    ($(_ v.name());
      _it1.index++;
      _it1.first = false;
    })
    $(_ " ");
    ($(_ v.name());
      _it1.index++;
      _it1.first = false;
    })
    $(_ " ")
    $(_ " return ");
    (final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
     final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
     final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
       @Override public void run(org.immutables.generator.Templates.Invokation __) {
         (final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
          $(_ type.typeImmutable().relativeRaw());
          $(_ type.generics().diamond());
          $(_ " ");
          (final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration)
          for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
            $(_ " ");
            if ($if($not _it1.first)) {
              $(_ " ");
            }
            $(_ v.name());
            _it1.index++;
            _it1.first = false;
          })
          $(_ " ");
          $(_);
          });
          $(_ _it1 = new org.immutables.generator.Templates.Iteration)
          for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
            $(_ _it1.index++;
            _it1.first = false;
          })
          $(_ " ");
          $(_);
          if ($if(type_validated_1881291508.isUseValidation())) {
            $(_ _it1.index++;
            _it1.first = false;
          })
          $(_ " ");
          $(_);
          if ($if(qualified_validated_1881291508)) {
            $(_ type_validated_1881291508.typeImmutable().relativeRaw());
            $(_ " ");
          } else {
            $(_ expression_validated_1881291508);
            $(_ " ");
          }
        }
      }
    }
```

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```java
if ($if(type.isUseValidation())) {
  if ($if(type.isUseJavaValidationApi())) {
    $(__, disambiguateField, type, "validator");
    __.out(" = javax.validation.Validation.buildDefaultValidatorFactory().getValidator();").ln();
  }
}
__dl();
__ln();
__out(" private static final javax.validation.Validator ");
$__._(_, type.generics().spaceAfter());
$__._(_, type.typeImmutable().relative());
___.out(" validate(");
$__._(_, type.typeImmutable().relative());
___.out(" instance ) ");.ln();
__dl();
if ($if(type.isUseJavaValidationApi())) {
  ___.dl();___.ln();
  ___.out(" java.util.Set<javax.validation.ConstraintViolation<");
  $__._(_, type.typeImmutable().relative());
  ___.out(">> constraintViolations = ");
  $__._(_, disambiguateField, type, "validator");
  ___.out(".validate(instance);").ln();
  ___.out(" if (!constraintViolations.isEmpty()) {".ln();
  ___.out(" throw new javax.validation.ConstraintViolationException(constraintViolations);").ln();
  ___.out(" }");.ln();
}
___.dl();___.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
```
for (final org.immutables.value.processor.meta.ValueType.ValidationMethod vm : $in(type.validationMethods))
{
  __.dl();___.ln();
  __.out("  ");
  __.dl();
  if ($if(vm.normalize))
  {
    __.dl();__.ln();
    __.out("    instance = (");
    $(__, type.typeImmutable().relative());
    __.out(" instance.");
    $(__, vm.name);
    __.out("();").ln();
    __.out(" ");
  }
  else
  {
    __.dl();__.ln();
    __.out("    instance.");
    $(__, vm.name);
    __.out("();").ln();
    __.out(" ");
  }
}
___.dl();___.ln();
___.dl();_it1.index++;
_it1.first = false;
}
___.dl();___.ln();
if ($if(type.isUseSingletonOnly()))
{
  __.dl();__.ln();
  __.out(" return INSTANCE != null ? INSTANCE : instance;");
  __.dl();__.ln();
} else if ($if(type.isGenerateOrdinalValue()))
{
  __.dl();__.ln();
  __.out(" return (";
  $(__, type.typeImmutable().relative());
  __.out(") instance.domain.internOrdinal(new InternProxy(instance));").ln();
} else if ($if(type.isUseInterned()))
{
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if(type.isGenerateJdkOnly()))
  {
    __.dl();__.ln();
    __.out("  ");
    __.dl();
    if ($if(type.isUseWeakInterned()))
    {
      synchronized (INTERNER) {
        
      }
    }
  }
}
if ($if(type.isGenerateJdkOnly()))
{
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if(type.isUseWeakInterned()))
  {
    __.dl();__.ln();
    __.out(" synchronized (INTERNER) ");
    __.ln();
    __.out(" ");
  }
}
if ($if(type.isUseWeakInterned())) {
    __dl();__ln();
    __out("    return INTERNER.intern(instance);" ).ln();
    __out("    ");
}

else {
    __dl();__ln();
    __out("    return INTERNER.intern(new InternProxy(instance)).instance;" ).ln();
    __out("    ");
}

__dl();__ln();
__out("    ");

else if ($if(type.isUseSingleton())) {
    __dl();__ln();
    __out("    ");
    __dl();
    if ($if(type.isUseSingletonOnlyForConstruction())) {
        __dl();__ln();
        __out("    return instance;" ).ln();
        __out("    ");
    }
    else {
        __dl();__ln();
        __out("    return INSTANCE != null & & INSTANCE.equalTo(instance) ? INSTANCE : instance;" );
        __dl();__ln();
        __out("    ");
    }
}

__dl();__ln();

else {
    __dl();__ln();
    __out("    return instance;" ).ln();
}

__dl();__ln();

} else {
    __dl();__ln();
    __out("    ");
}
org.immutables.generator.Templates.Invokable generateSingletonInstance() { return generateSingletonInstance; }
private final org.immutables.generator.Templates.Invokable generateSingletonInstance = new FragmentDispatch(1, 11);
void _t11__generateSingletonInstance(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.isUseSingleton())) {
    __dl();
    final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
    final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
    final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
    org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();
        final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
        __out("new ");
        $(__, type.typeImmutable().relativeRaw());
        __out("()");
        __dl();
      }
    };
    __dl();
    if ($if(type_validated_1881291508.isUseValidation())) {
      __dl();
      if ($if(qualified_validated_1881291508)) {
        __dl();
        __out("validate(");
        $(__, expression_validated_1881291508);
        __out(")");
      } else {
        __dl();
        $(__, expression_validated_1881291508);
      }
    } else {
      __dl();
      $(__, expression_validated_1881291508);
      __out(";");
      __ln();
      __out(";");
      __ln();
    }
package com.example;  

import com.immutables.value.Immutable;  

@Immutable  
public class MyClass {
  private static final MyClass INSTANCE = new MyClass();  

  public static MyClass() {
    return INSTANCE;  
  }  

  org.immutables.generator.Templates.Invokable generateImmutableCopyOf() {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));  
    if (!$if($(type.isUseCopyConstructor(), andnot, type.constitution.isImplementationHidden()))) {
      _t12__generateImmutableCopyOf(__.param(0));
    } else if (!$if($(not, type.constitution.isImplementationPrimary()))) {
      public static MyClass generateImmutableCopyOf(final MyClass original) {
        final MyClass copy = new MyClass();  
        copy.setValuesFrom(original);  
        return copy;  
      }
    }

    return generateImmutableCopyOf;  
  }
}
if ($if(type.isUseBuilder())) {
  __dl();__out("return ");
}$(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();$__.__ln();
    __out("()\n    __dl();
  }));
__ln();
__out("\n__dl();
if ($if(type.isGenerateBuilderFrom())) {
  __dl();__ln();
  __out("from\n  __out("(instance)\n  __out("\n)"\n  __dl();
} else {
  __dl();__ln();
  __out("\n{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __dl();__ln();
    __out("\n    __dl();
    if ($if(v.isEncoding()) {
        __dl();__ln();
        __out("\n
} else {
    __dl();__ln();
    __out(" return ");
    ${__(.type.factoryOf().relative());
    __out("\n");
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
        __dl();__dl();
        if ($if($(not, _it1.first))) {
            __dl();__out(" , ");
        }
        __dl();__out(" instance.");
        ${__(.v.names.get);
        __out("\n");
        __dl();_it1.index++;
        _it1.first = false;
    }
    __dl();__out("\n");
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute o : $in(type.getWithSettableAfterConstruction())) {
        __dl();__ln();
        __out("\n");
        ${__(.o.names.with);
        __out("\n");
        __dl();_it1.index++;
        _it1.first = false;
    }
    __dl();__out("\n").ln();
    }
}
__dl();__ln();
__out("\n");
$(__, o.names.get);
__out("\n");
__dl();__out(" instance.");
$(__, o.names.get);
__out("\n");
__dl();_it1.index++;
_it1.first = false;
}__dl();__out("\n").ln();

}__dl();__ln();
__out("\n");
org.immutables.generator.Templates.Invokable generateLazyValues() { return generateLazyValues; }  
private final org.immutables.generator.Templates.Invokable generateLazyValues = new FragmentDispatch(1, 13);  
void _t13__generateLazyValues(org.immutables.generator.Templates.Invocation__) {  
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));  
  __dl();  
  final org.immutables.value.processor.meta.ValueAttribute> lz = $cast(type.getLazyAttributes());  
  __dl();  
  __out(" ");  
  __dl();  
  if ($if(lz)) {  
    __dl();  
    __ln();  
    __ln();  
    __dl();  
    __out(" ");  
    __dl();  
    if ($if(lz)) {  
      __dl();  
      __ln();  
      __ln();  
      __dl();  
      __out(" ");  
      __dl();  
      __out(" ");  
      final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();  
      final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast($(_longsFor, lz));  
      __dl();  
      __out(" ");  
      __dl();  
      __out(" ");  
      final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);  
      __dl();  
      if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {  
        __dl();  
        __out(" @com.fasterxml.jackson.annotation.JsonIgnore");  
      }  
      __dl();  
    }  
    __ln();  
    __out(" ");  
    $(__, eachLine, type.syntheticFieldsInjectedAnnotations());  
    __ln();  
    __out(" ");  
    final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);  
    __dl();  
    if ($if(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,  
      "com.google.errorprone.annotations.Immutable")) {  
      __dl();  
      __out(" @SuppressWarnings("Immutable")");  
    }  
    __dl();  
  }  
  __ln();  
  __out(" private transient volatile long lazyInitBitmap");  
  $(__, emptyIfZero, l.index);
final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
__dl();__ln();
if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
    __out(" ");
    __dl();
}
for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {
__dl();__ln();
__out("   * @throws ");$
(__, t);
__out(" if undelying { @code ");$
(__, l.names.get);
__out("() will throw it.");ln();
__out("   ");
__dl();_it4.index++;
_it4.first = false;
}
__dl();__ln();
__out("   */");ln();
__out("   ");$
(__, eachLine, l.accessorInjectedAnnotations());
__ln();
__out("   @Override");ln();
__out("   ");$
(l.getThrownCheckedExceptions()) {
__dl();__ln();
__out("   ");$
(__, l.getAccess());$
(__, l.getType());
__out("   ");$
(output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();$___.names.get);
__out("()").ln();
__out("   throws ");
__out("      throws ");$
(final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {
__dl();__dl();
if ($if($not, _it4.first)) {
__dl();__out("   ");
}
__dl();$___.t);
__dl();_it4.index++;
_it4.first = false;
}
__dl();__out("   ");$
__dl();
__ln();
__out("   ");}
} else {
    __dl();__ln();
    __out("  ");
    $(__, l.getAccess());
    $(__, l.getType());
    __out("  ");
    $(__, l.names.get);
    __out("() ("),ln();
    __out("  ");
}

__dl();__ln();
__out("    if ((");
$(__, bitmapFieldName);
__out(" & ");
$(__, maskConstantName);
__out(") == 0 {"),ln();
__out("    synchronized (this){"),ln();
__out("    if ((");
$(__, bitmapFieldName);
__out(" & ");
$(__, maskConstantName);
__out(") == 0 {"),ln();
__out("    this.");
$(__, lazyVar);
__out(" = ");

final org.immutables.value.processor.meta.ValueAttribute v_maybeNonNullValue_1844859357 = $cast(l);
final org.immutables.generator.Templates.Invokable expression_maybeNonNullValue_1844859357 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeNonNullValue_1844859357 = this;
        $(__, invokeSuper, l);
        __out(".");
        $(__, l.names.get);
        __out("()" );
        __dl();
    } };__dl();__dl();

if (!$if($(v_maybeNonNullValue_1844859357.isPrimitive(), or,
    v_maybeNonNullValue_1844859357.isNullable()))) {
    __dl();$(__, expression_maybeNonNullValue_1844859357);
}

} else {
    __dl();$(__, requireNonNull, v_maybeNonNullValue_1844859357.containingType);
    __out("(");
    $(__, expression_maybeNonNullValue_1844859357);
    __out(" ," );
    $(__, v_maybeNonNullValue_1844859357.name());
}
org.immutables.generator.Templates.Invokable castBuildStagedBuilder() { return castBuildStagedBuilder; }
private final org.immutables.generator.Templates.Invokable castBuildStagedBuilder = new FragmentDispatch(2, 14);
void _t14__castBuildStagedBuilder(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
  if ($if(!$tb, andnot, type.getInnerBuilder().isExtending)) {
    final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    _it3.index++;
    _it3.first = false;
  }
  _it2.index++;
  _it2.first = false;
}
org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.ValueType type = $cast(_it1.param(0));
final java.lang.String expression = _it1.param(1).toString();
if ($if(!$tb, andnot, type.getInnerBuilder().isExtending)) {
  _it3.index++;
  _it3.first = false;
}
$(__, type.typeBuilderImpl().relative());
__out("\")
$___.out("\")
} else {
___.dl();$___.expression;
} ___.dl();___.dl();___.dl();___.dl();
___.dl();___.dl();___.dl();

org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType() { return factoryBuildStageBuilderType; }
private final org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType = new FragmentDispatch(1, 15);
void _t15__factoryBuildStageBuilderType(org.immutables.generator.Templates.Invocation __) {
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
___.dl();___.dl();
if ($if(tb)) {
___.dl();$___.toUpper, tb.firstStage().attribute.name());
___.out("BuildStage");
$___.type.generics().args());

} else {
___.dl();$___.type.typeBuilderImpl().relative());
___.dl();___.dl();___.dl();___.dl();
___.dl();___.dl();___.dl();

org.immutables.generator.Templates.Invokable telescopicBuilderImplementInterfaces() { return telescopicBuilderImplementInterfaces; }
private final org.immutables.generator.Templates.Invokable telescopicBuilderImplementInterfaces = new FragmentDispatch(1, 16);
void _t16__telescopicBuilderImplementInterfaces(org.immutables.generator.Templates.Invocation __) {
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
___.dl();___.dl();
if ($if(tb)) {
    __.dl();
    final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);
        __.dl();
        __.out("BuildStage");
        __.out(toUpper, v.name());
        __.dl();
        __.out("BuildFinal");
        __.dl();
    }
    _it1.index++;
    _it1.first = false;
}
___.dl();
org.immutables.generator.Templates.Invokable generateTelescopicBuilderInterfaces() {
    return
generateTelescopicBuilderInterfaces;
}
private final org.immutables.generator.Templates.Invokable generateTelescopicBuilderInterfaces = new
    FragmentDispatch(1, 17);
void _t17__generateTelescopicBuilderInterfaces(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
    __.dl();
    __.ln();
    __.dl();
    if ($if(tb)) {
        __.dl();
        __.ln();
        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {
            final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);
            __.dl();
            __.ln();
        }
        final org.immutables.generator.Templates.Invokable builderReturn = new
        org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();
                final org.immutables.generator.Templates.Invokable builderReturn = this;
                __.dl();
                if ($if(nt.next)) {
                    __.dl();
                    __.out(toUpper, nt.next.attribute.name());
                    __.out("BuildStage");
                    __.out(toUpper, nt.next.attribute.name());
                    __.out("BuildFinal");
                    __.dl();
                }
            }
        };
    }
}

} else {
  __.dl();__.out("BuildFinal");
  $(__, type.generics().args());
}

} __.dl();__.dl();
}

$__;
$__;
$__;
$__;
$__;
$__;
___.dl();__.dl();
$__;
$__;
$__;
$__;
$__;
$__;
$__;
___.ln();
$__;
$__;
$__;
$__;
$__;
$__;
___.ln();
$__;
$__;
$__;
$__;
$__;
$__;
___.ln();
$__;
$__;
$__;
$__;
$__;
$__;
___.ln();
$__;
$__;
$__;
$__;
$__;
$(__, toUpper, v.name());
___.out("BuildStage");
$__;
$__;
$__;
$__;
$__;
___.out(" *").ln();
$__;
___.out("/**").ln();
$__;
___.out(" * Initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

$__;
___.out("attribute.").ln();
___.out(" * @param ");
$(__, v.name());
___.out(" The value for ");
$(__, v.name());
___.out(" ");
___.dl();
if ($if(v.isNullable())) {
  __.dl();__.out("(can be { @code null})");
}

___.dl();__.ln();
___.out(" * @return { @code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __.dl();__.out("@Deprecated");
}

___.dl();
}
___.ln();
___.out(" ");
$(__, builderReturn);
__out(" ");
$___.v.names.init);
__out("(");
$___.v.getType());
__out(" ");
$___.v.name());
__out(":");ln();
__out(" }").ln();
__dl();_it2.index++;  
_it2.first = false;
}
__dl();__ln();
__ln();$
$___.atGenerated, type);
__ln();
__out("public interface BuildFinal");
$___.type.generics();
__out(" ").ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(tb.finals)) {
  __dl();__ln();
  __dl();
if ($if(v.isEncoding())) {
    __dl();__ln();
    __out(" ");
    __dl();__ln();
} else if ($if(v.isCollectionType())) {
    __dl();__ln();
    __ln();
    __out(" @param element A ");
    $(___.v.name());
    __out(" element").ln();
    __out(" @return { @code this } builder for use in a chained invocation").ln();
    __out(" */").ln();
    __out(" ");
  }
  final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  __out(" ");
  $(___.ToLower, v.getRawCollectionType());
  __out(".").ln();
  __out(" * @param element A ");
  $(___.v.name());
  __out(" element").ln();
  __out(" * @return { @code this } builder for use in a chained invocation").ln();
  __out(" */").ln();
  __out(" ");
  final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecation");}
```java
___.dl();
___.ln();
___.out(" BuildFinal");
$___.type.generics().args();
___.out(" ");
$___.v.names.add();
___.out(" ");
$___.v.getUnwrappedElementType();
___.out(" element");).ln();
___.ln();
___.out(" /**").ln();
___.out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
___.out(" ");
$___.toLower, v.getRawCollectionType();
___.out(".").ln();
___.out(" * @param elements An array of ");
$___.v.name();
___.out(" elements").ln();
___.out(" * @return {@code this} builder for use in a chained invocation").ln();
___.out(" *!").ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($iff(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
}
___.dl();
___.ln();
___.out(" BuildFinal");
$___.type.generics().args();
___.out(" ");
$___.v.names.addv();
___.out(" ");
$___.v.getUnwrappedElementType();
___.out("... elements");).ln();
___.ln();
___.out(" /**").ln();
___.out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
```
$(__, a_optionalEmpty_1867206284.getRawType());
  __out(".");
  __dl();
  if ($if(a_optionalEmpty_1867206284.isJdkOptional())
      __dl();__out("empty");
  } else if ($if($a_optionalEmpty_1867206284.isFugueOptional(),
or,
a_optionalEmpty_1867206284.isJavaslangOptional())
      __dl();__out("none");
  } else {
    __dl();__out("absent");
  }
  __dl();__out("()");

}__out("}");

__dl();__ln();
__out(" * @return \{@code this\} builder for chained invocation\}.
__out(" */");
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if(a_deprecation_286924011.deprecated)
      __dl();@Deprecated
    }
  }
__ln();
__out(" BuildFinal");
$(__, type.generics().args());
__out(" ");
$(__, v.names.init);
__out("(");
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 =
  $cast(v);
  __dl();
  if ($if($a_unwrappedOptionalType_1615308684.isOptionalType(),
        a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())
      __dl();$__.atNullable, a_unwrappedOptionalType_1615308684;
    $(__, a_unwrappedOptionalType_1615308684.getWrappedElementType());
  } else {
    __dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
}
$(__, v.name());
__out(" /* Initializes the optional value */");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" to ");
$(__, v.name());
__out(" ");ln();
__out(" * @param ");
$(__, v.name());
__out(" The value for ");
$(__, v.name());
__ln();
__out(" * @return { @code this } builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" BuildFinal");
$(__, type.generics().args());
__out(" ");
$(__, v.names.init);
__out("()");
$(__, v.getRawType());
__dl();
if ($if($not, v.isJdkSpecializedOptional())) {
    __dl();__out("<");
    $(__, v.getConsumedElementType());
    __out(">");
}
__dl();__out(" ");
$(__, v.name());
if ($if(v.isMapType()))
    __dl();__ln();
    __out(" ");
    __dl();
    __out("");
    __dl();

if ($if(v.isMultimapType()))
    __dl();__ln();
    __ln();
    __out(" /* * Put all mappings from the specified key to values for */");

final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

    __out(" ");
$(__, toLower, v.isMapType());
    __out(" . Nulls are not permitted").ln();
    __out(" * @param key The key for ");
$(__, v.name());
    __ln();
    __out(" * @param values The values for ");
$(__, v.name());
    __ln();
    __out(" * @return [ @code this ] builder for use in a chained invocation").ln();
    __out(" */").ln();
    __out(" ");

if ($if(a_deprecation_286924011.deprecated))
    __dl();

if ($if(a_deprecation_286924011.deprecated))
    __dl();__out("@Deprecated");

    __dl();

    __ln();
    __out(" BuildFinal");
$(__, type.generics().args());
    __out(" ");
$(__, v.names.putv());
public Builder putAll(String key, Iterable<Value> values) {
  return putAll(Collections.<String, Value>fromMap(mapValues(key, values)));
}

BuildFinal type;
__out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
__(sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map.").ln();
__out(" * @param key The key in the ");
__(v.name());
__out(" map").ln();
__out(" * @param value The associated value in the ");
__(v.name());
__out(" map").ln();
__out(" * @return [ @code this ] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" BuildFinal");
__(type.generics().args());
__out(" ");
__(v.names.put());
__out("(");
__(uK);
__out(" key, ");
__(uV);
__out(" value);.").ln();
__ln();
__out(" /**").ln();
__out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__(sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map. Nulls are not permitted").ln();
__out(" * @param entry The key and value entry").ln();
__out(" * @return [ @code this ] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();
}
__dl();__out("@Deprecated");

}
__dl();
__ln();
__out(" BuildFinal");
$___.type.generics().args();
__out(" ");
$___.v.names.put();
__out("(java.util.Map.Entry<");
$___.gE();
__out(" , ? extends ");
$___.wV();
__out("> entry;").ln();
__ln();
__out(" ***").ln();
__out(" * Put all mappings from the specified map as entries to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map. Nulls are not permitted").ln();
__out(" * @param entries The entries that will be added to the ");
$___.v.name();
__out(" map").ln();
__out(" * @return [@code this] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" BuildFinal");
$___.type.generics().args();
__out(" ");
$___.v.names.putAll();
__out("(");
__dl();
if ($if(v.isMultimapType())) {
    __dl();$(___.guava);
    __out(" collect.Multimap");
}
else if ($if(v.isArrayType())) {
  $.dl();$.ln();
  $.ln();
  $.out("/**").ln();
  $.out("* Initializes the value for the ");
  [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $($.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  ]
  $.out(" attribute.").ln();
  $.out("*").ln();
  $.dl();
  if ($if(v.isGenerateDefault)) {
    $.dl();$.ln();
    $.out("* <p><em>If not set, this attribute will have a default value as defined by ");
    [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $($.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    ]
    $.out("</em>").ln();
    $.out("*").ln();
  }
  $.dl();$.ln();
  $.out("* @param elements The elements for ");
  $($.v.name());
  $.ln();
  $.out("* @return [@code this] builder for use in a chained invocation").ln();
  $.out("*/").ln();
  $.out("*");
  [final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  $.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    $.dl();$.out("@Deprecated");
  }
}
} else {
  __.dl();__.ln();
  __.ln();
  __.out("/**").ln();
  __.out(" * Initializes the value for the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
   $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __.out(" attribute.").ln();
  __.out(" ");
  __.dl();
  if ($if(v.isGenerateDefault)) {
    __.dl();__.ln();
    __.out(" * <p><em>If not set, this attribute will have a default value as returned by the initializer of 
    
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    
    }
    __.out("</em>").ln();
    __.out(" ");
    }
  } else {
    __.dl();___.ln();
    __.ln();
    __.out(" */*").ln();
    __.out(" * Initializes the value for the ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(" ");
    __.dl();
    if ($if(v.isNullable())) {
      __.dl();__.ln();
      __.out("(can be {@code null})
    } else {
      __.dl();__.ln();
      __.ln();
      __.out("@param ");
      $(__, v.name());
      __.out(" The value for ");
      $(__, v.name());
      __.out(" ");
      __.dl();
      if ($if(v.isNullable())) {
        __.dl();___.out("(can be {@code null})");
      }
      __.dl();__;ln();
    } // if ($if(v.isNullable()))
} // else
```java
private final org.immutables.generator.Templates.Invokable generateBuilder = new FragmentDispatch(2, 18);
void _t18__generateBuilder(org.immutables.generator.Templates.Invocation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  $(__, packageWhenTopLevel, type, topLevel);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters = $cast(type.getSettableAttributes());
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters = $cast(type.getImplementedAttributes());
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> mandatories = $cast(type.getMandatoryAttributes());
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> nondefaults = $cast(type.getRequiresTrackedIsSetNonMandatoryAttributes());
   $(__, packageWhenTopLevel, type, topLevel);
   __.dl();}
  __.dl();}
```
} else {
  __dl();__ln();
  __out(" * Builds instances of type { @link ");
  $(__, type.typeValue().relativeRaw());
  __out(" ");
  $(__, type.typeValue().simple());
  __out("}.").ln();
  __out(" * Initialize attributes and then invoke the { @link #");
  $(__, type.names().build);
  __out("} method to create an").ln();
  __out(" * immutable instance.").ln();
}
__dl();__ln();
__out(" * <p><em>{@code ");
$(__, type.typeBuilderImpl().simple());
__out("} is not thread-safe and generally should not be stored in a field or collection,").ln();
__out(" * but instead used immediately to create instances.</em>").ln();
__out(" */").ln();
$(__, annotationsWhenTopLevel, type, topLevel);
__ln();
__dl();

if ($(type, allowsClasspathAnnotation, "javax.annotation.concurrent.NotThreadSafe")) {
  __dl();__ln();
  __out("@javax.annotation.concurrent.NotThreadSafe").ln();
}
__dl();__ln();
$(__, eachLine, type.getBuilderAnnotations());
__ln();
$(__, eachLine, type.builderTypeInjectedAnnotations());
__ln();
$(__, type.typeBuilderImpl().access());
__dl();
if ($(not, topLevel)) {
  __dl();__out("static ");
}
__dl();__dl();
if ($(not, type.getInnerBuilder().isExtending)) {
  __dl();__out("final ");
}
__dl();__dl();
if ($(not, type.typeBuilderImpl().isExtending)) {
  __dl();__out("class ");
}$(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();$(__, type.typeBuilderImpl().simple());
  }
});
if ($if(type.getInnerBuilder().isSuper)) {
    __.dl();__.ln();
    __.out("  ");
    __.dl();
    if ($if(type.getInnerBuilder().isInterface)) {
        __.dl();__.ln();
        __.out("    ");
        __.dl();
        if ($if(type.getTelescopicBuild())) {
            __.dl();__.ln();
            __.out("      implements ");
            __(__, type.typeAbstract().relativeRaw());
            __.out(".");
            __(__, type.getInnerBuilder().simpleName);
            __(__, type.getInnerBuilder().generics.args());
            __.dl();
            if ($if(type.getTelescopicBuild()) ) {
                __.dl();__.out("  ");
                $(__, telescopicBuilderImplementInterfaces, type);
            } else {
                __.dl();__.ln();
                __.out("    ");
            }
        } else {
            __.dl();__.ln();
            __.out("    extends ");
            __(__, type.typeAbstract().relativeRaw());
            __.out(".");
            __(__, type.getInnerBuilder().simpleName);
            __(__, type.getInnerBuilder().generics.args());
            __.dl();
            if ($if(type.getTelescopicBuild()) ) {
                __.dl();__.ln();
                __.out("      implements ");
                $(__, telescopicBuilderImplementInterfaces, type);
            }
        }
    } else if ($if(type.getTelescopicBuild())) {
        __.dl();__.ln();
        __.out("  ");
        $(__, telescopicBuilderImplementInterfaces, type);
    }
} else if ($if(type.getTelescopicBuild())) {
    __.dl();__.ln();
    __.out("    implements ");
    $(__, telescopicBuilderImplementInterfaces, type);
} else {
    __.dl();__.ln();
    __.out("    ");
}
__out(" { ").ln();
__out(" ");

} else {
  __dl();__out(" ").ln();
  __out(" ");

} __dl();__dl();

if ($if(type.constitution.isOutsideBuilder())) {
  __dl();__ln();
  __out(" ");
  $(__, rr.staticFields(), setters);
  __ln();
  __out(" ");
  $(__, rr.staticMethods(), setters);
  __ln();

} __dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
  final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(positions, m));
  __dl();__ln();
  __out(" private static final long INIT_BIT_");
  $(__, toConstant, m.name());
  __out(" = ");
  $(__, literal.hex, pos.mask);
  __out(" ");__ln();
  __out(" ");
  __dl();_it2.index++;
  _it2.first = false;
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(nondefaults)) {
  final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(nondefaultsPositions, p));
  __dl();__ln();
  __out(" private static final long OPT_BIT_");
  $(__, toConstant, p.name());
  __out(" = ");
  $(__, literal.hex, pos.mask);
  __out(" ");__ln();
if ($if($(${positions.longs()}, or, ${nondefaultsPositions.longs()}))) { 
  _.__.dl();
  _.__.ln();
  __.out(" ");
  __.dl();__it2.index++;
  _it2.first = false;
}
___.dl();___._ln();
___.out(" ");
$(___. rr.builderStaticFields(), setters);
  ___._ln();
  ___.out(" ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
      _.__.dl();___.ln();
      ___.out(" ");
      $(___. eachLine, type.syntheticFieldsInjectedAnnotations());
      ___._ln();
      ___.out(" private long ");
      $(___. disambiguateField, type, "initBits");
      $(___. emptyIfZero, l.index);
      ___.out(" = ");
      $(___. literal.hex, l.occupation);
      ___.out(";").ln();
      ___.out(" ");
      _.__.dl();__it2.index++;
      _it2.first = false;
   } } 
___.dl();___._ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(nondefaultsPositions.longs())) {
      _.__.dl();___.ln();
      ___.out(" ");
      $(___. eachLine, type.syntheticFieldsInjectedAnnotations());
      ___._ln();
      ___.out(" private long ");
      $(___. disambiguateField, type, "optBits");
      $(___. emptyIfZero, l.index);
      ___.out(";").ln();
      ___.out(" ");
      _.__.dl();__it2.index++;
      _it2.first = false;
   } } 
___.dl();___._ln();
___.out(" ");
___.dl();
if ($if($(${positions.longs()}, or, ${nondefaultsPositions.longs()}))) { 
  _.__.dl();___.dl();___._ln();
  ___._ln();
  ___.out(" ");
}
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : setters) {
    if ($if($(not, v.isEncoding()))) {
        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        final java.lang.Boolean useFactoryMethod = $cast($(not, type.factoryBuilder().isNew()));
        final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters =
        $cast(type.getBuilderParameters());
        if ($if(type.kind().isFactory())) {
            dl();
            out("  ");
            eachLine, type.syntheticFieldsInjectedAnnotations();
            ln();
            out("  private Domain domain = Domain.get();");
            ln();
        }
    }
}
__out(" * Creates a \{code \} factory builder.").ln();

} else {
__dl();__ln();
__out(" * Creates a builder for \{link \};
$(__, type.typeValue().relativeRaw());
__out(" ");
$(__, type.typeValue().simple());
__out(" instances.").ln();

}
__dl();__ln();
__out(" ");
$___.javadocBuilderExample, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
__dl();__ln();
__out(" * @param ");
$(__, p.name());
__out(" @code ");
$(__, p.name());
__out(" } parameter");
__dl();
if ($if(p.isNullable())) {
__dl();__out(" can be \{code null\}");
}
__dl();__ln();
__dl();_it4.index++; _it4.first = false;
}}
__dl();__ln();
__out(" */").ln();
__out(" ");

}
__dl();__ln();
__out(" ");
__dl();
if ($if(useFactoryMethod)) {
__dl();__out("private");
}
else {
__dl();$(__, type.typeBuilderImpl().access());
```java
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __dl();__out("(");
    if ($if($(not, _it4.first))) {
        __dl();__out(", ");
    }
    __dl();$(__, p.atNullability());
    __out(",");
    ((__ = constructorAcceptType, p);
    __out(" ");
    __dl();_it4.index++;
    _it4.first = false;
}
__dl();__out(")");ln();
__out(" ");
__dl();
if ($if(type.getInnerBuilder().isExtending)) {
    __dl();__ln();
    __out(" if (!(this instanceof ");
    $(__, type.typeBuilder().relativeRaw());
    $(__, type.generics().unknown);
    __out(" ) } ");ln();
    __out(" throw new UnsupportedOperationException("Use: ");
    $(__, type.factoryBuilder().relative());
    __out("();");ln();
    __out(" ");ln();
    __out(" ");
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(v.isBuilderSwitcher())) {
        __dl();__ln();
        __out(" ");
    }
    {final org.immutables.generator.Templates.Iteration _it5 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.SwitcherModel.SwitchOption o :
            $in(v.builderSwitcherModel.options)) {
```
if ($if(o.isDefault)) {
    __dl(); __ln();
    __out("    ");
    $(__, v.names.init);
    __out("("");
    $(__, v.getRawType());
    __out(".");
    $(__, o.constantName);
    __out(")").ln();
    __out("    ");
    __dl(); _it5.index++;
    _it5.first = false;
}}
__dl(); __ln();
__out("    ");

} __dl(); __ln();
__out("    ");
__dl();
if ($if(v.isBuilderParameter)) {
    __dl(); __ln();
    __out("    ");
    __dl();
    if ($if(v.isCollectionType())) {
        __dl(); __ln();
        __out("    ");
        $(__, v.names.addAll());
        __out("("");
        $(__, v.name());
        __out("."); ln();
        __out("    ");
    } else if ($if(v.isMapType())) {
        __dl(); __ln();
        __out("    ");
        $(__, v.names.putAll());
        __out("(");
        $(__, v.name());
        __out("."); ln();
        __out("    ");
    } else if ($if(v.isMapType())) {
        __dl(); __ln();
        __out("    ");
        $(__, v.names.putAll());
        __out("(");
        $(__, v.name());
        __out("."); ln();
        __out("    ");
    } else {
        __dl(); __ln();
        __out("    ");
        $(__, v.names.init);
        __out("(");
        $(__, v.name());
        __out("."); ln();
}
if ($if(useFactoryMethod)) {
  __.dl();___.ln();
  ___.dl();
  if ($if($(type.kind().isFactory(), or, type.constitution.isOutsideBuilder()))) {
    __.dl();___.ln();
    ___.ln();
    __.out(" /**").ln();
    __.dl();
    if ($if(type.kind().isFactory())) {
      __.dl();___.ln();
      __.out(" * Creates a @code ");
      __.out(__, type.typeBuilderImpl().simple());
      __.out("} factory builder.").ln();
    } else {
      __.dl();___.ln();
      __.out(" * Creates a builder for @link ");
      __.out(__, type.typeValue().relativeRaw());
      __.out(" ");
      __.out(__, type.typeValue().simple());
      __.out("} instances.").ln();
    }
  }
  __.dl();___.ln();
  __.out(" ");
  __.out(___.javadocGenerics, type);
  ___.ln();
  __.out(" ");
  {final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
     __.dl();___.ln();
     __.out(" * @param ");
     __.out(__, p.name());
     __.out(" @code ");
     __.out(__, p.name());
     __.out("} parameter");
     __.dl();
     if ($if(p.isNull())) {
      __.dl();___.out(" can be @code ");
    }
  }
  __.dl();___.ln();
  __.out(" ");
  __.dl();_it4.index++; 
  _it4.first = false;
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Object: "__dl()__ln();
__out("  * @return A new builder").ln();
__out("  */").ln();
__out(" public static");
$.(__.type.generics().def());
__out(" ");
$.(__.type.typeBuilderImpl().simple());
$.(__.type.generics().args());
__out(" ");
$.(__.type.factoryBuilder().applied());
__out("(");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute p : Sin(parameters)) {
    __dl()__dl();
    if ($if($not __it4.first)) {
      __dl();__out(" , ");
    }
    __dl();$.__p.atNullability();
    $.(__.constructorAcceptType, p);
    __out(" ");
    $.(__.p.name());
    __dl();__it4.index++;
    __it4.first = false;
  }
  __out(" ");ln();
  __out("  return new ");
  $.(__.type.typeBuilderImpl().simple());
  $.(__.type.generics().diamond());
  __out("()");
  {final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute p : Sin(parameters)) {
      __dl();__dl();
      if ($if($not __it4.first)) {
        __dl();__out(" , ");
      }
      __dl();$.__p.name();
      __dl();__it4.index++;
      __it4.first = false;
    }
    __dl();__out(";").ln();
    __out(" ");ln();
    __out(" ");
    __dl();
}
if ($if($(parameters, andnot, type.kind().isFactory()))) {
  __dl();__ln();
  __ln();
  __out(" static");
  $__(__, type.generics().def());
  __out(" ");
  $__(__, type.typeBuilderImpl().simple());
  __out(" ");
  $__(__, type.factoryBuilder().applied());
  __out("()").ln();
  __out(" return new ");
  $__(__, type.typeBuilderImpl().simple());
  $__(__, type.generics().diamond());
  __out("();").ln();
  __out(" 1").ln();
  __out(" ");
}
__dl();__ln();

__dl();__ln();
__out(" ");
__dl();__ln();
__dl();_it3.index++;
_it3.first = false;
}
__dl();__ln();
__dl();__ln();
__dl();_it2.index++;
_it2.first = false;
}
__dl();__ln();
__dl();
if ($if(type.isGenerateOrdinalValue())) {
  __dl();__ln();
  __ln();
  __out(" /*");ln();
  __out(" * Specify a non-default { @link Domain } for ordinal values.").ln();
  __out(" * @return [ @code this ] builder for use in a chained invocation");ln();
  __out(" */");ln();
  __out(" ");
}final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {

function buildFromMandatoryAttribute(buildFromAttribute, v) {
    out("    ");
    _it2.index++;
    _it2.first = false;
}

dl();
out("    ");
finally {
    return {
        final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);

dl();
if ($if(type_builderReturnThis_1267082624.getBuilder().isExtending)) {
    dl();
    out("(");
    __, type_builderReturnThis_1267082624.typeBuilder();
    out(") ");
}

dl();
out("this");
}

dl();
out(";").ln();
out(" ").ln();
out(" ");
}
dl();
out(" ");
dl();
if ($if($(type.getBuildFromTypes().hasManySupertypes()))) {
    dl();
    out(" ");
    finally {
        org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.FromSupertypesModel.FromSupertype s :
            type.getBuildFromTypes().supertypes) {
            dl();
            out(" ");
            dl();
            if ($if$(type.constitution.isImplementationPrimary(), and, $(s.type, eq, type.typeAbstract().toString()))) {
                dl();
                out(" ");
                finally {
                    
            }
        }
    }
}

}
__out(";").ln();
__out("  }").ln();
__ln();
__out(" */**") .ln();
__out("  * Copy abstract value type { @code ");
$___.type.typeAbstract().simple());
__out(" } instance into builder.");.ln();
__out("  * @param instance The instance from which to copy values" ).ln();
__out("  * @return { @code this } builder for use in a chained invocation" ).ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
} __ln();
__out("  public final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  __dl();
  if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$___.type_builderReturnType_1031721330.typeBuilder();
  } else {
    __dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
    $___.type_builderReturnType_1031721330.generics().args();
  }
  __dl();
} __out(" ");
$___.type.names().from);
__out(""");
$___.type.typeAbstract().relative());
__out(" instance } ");.ln();
__out(" ");
$___.requireNonNull, type);__out("(instance, \"instance\")");.ln();
__out(" from((Object) instance);" ).ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  __dl();
if ($(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  ___.dl();___.out("(");
  ___.type_builderReturnType_1267082624.typeBuilder();
  ___.out(" )");
}
___.dl();___.out("this");
}
___.out(";");ln();
___.out(" }").ln();
___.out(" ");
} else {
  ___.dl();___.ln();
  ___.ln();
  ___.out(" /**");ln();
  ___.out(" * Fill a builder with attribute values from the provided @code ");
  ___.s.raw();
  ___.out(" } instance.").ln();
  ___.out(" * @param instance The instance from which to copy values");ln();
  ___.out(" * @return @code this } builder for use in a chained invocation");ln();
  ___.out(" */");ln();
  ___.out(" ");
  final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if ($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    ___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  ___.dl();
  ___.ln();
  ___.ln();
  ___.out(" public final ");
}

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
if ($(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  ___.type_builderReturnType_1031721330.typeBuilder();
}
else {
  ___.type_builderReturnType_1031721330.typeBuilder().simple();
  ___.type_builderReturnType_1031721330.generics().args();
}
___.dl();
private void from(Object object) {
    dynamicFromModifiableCheck(type, object, return;);
}

final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __dl();__out("(");
    __out("this");
}
__dl();__out(");.
__out(" ");
__out(" ");
__out(" ");
__dl();__ln();
__out(" ");
__dl();__ln();
__ln();
{
    final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        __dl();__out("(");
        __out("this");
    }
}
__dl();__ln();
__ln();
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.FromSupertypesModel bs = $cast(type.getBuildFromTypes());
__dl();__ln();
__ln();
if ($if($bs.hasWildcards(), andnot, type.suppressesUncheckedWarning())}) {
    __dl();__ln();
    __out(" @SuppressWarnings("unchecked")").ln();
}
__dl();__ln();
__out(" private void from(Object object) { ").ln();
__out(" ");
$(__, dynamicFromModifiableCheck, type, "object", "return;">
```java
__.ln();
__.out("    ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(bs.positions.longs())) {
  __.dl();__.ln();
  __.out("    ");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
    __.dl();
    if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
      __.dl();__.out("@com.google.errorprone.annotations.Var ");
    }
  }
  __.dl();
} __.out("long bits");
$(__, emptyIfZero, l.index);
___.out(" = 0;").ln();
___.out("   ");
___.dl();_it3.index++;
_it3.first = false;
}
___.dl();___.ln();
___.out("   ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.FromSupertypesModel.FromSupertype s : $in(bs.supertypes)) {
  if ($if(s.attributes)) {
    __.dl();__.ln();
    __.out("    if (object instanceof ");
    __.out("   ");
    __.dl();s.wildcard);
    __.out("   ");
    __.dl();s.type);
    __.out("   ");
    __.dl();s.type);
    __.out("   ");
    __.dl();___.out("object;").ln();
    __.ln();
  }
}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(s.attributes)) {
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($bs(positions, v.name()));
___.dl();___.ln();
___.out("   ");
___.dl();
if ($if(pos)) {
  __.dl();___.ln();
```

---

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__out("      if ((bits";
$(__. emptyIfZero, pos.index);
__out(" & ");
$(__. literal.hex, pos.mask);
__out(") == 0) ";).ln();
__out(" ");
__dl();
if ($if(v.isNullableInSupertype())) {
__dl();__ln();
__out(" ");
$(__. buildFromAttributeNullableSupertype, v);
__ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
$(__. buildFromAttribute, v);
__ln();
__out(" ");
}
__dl();__ln();
__out(" bits");
$(__. emptyIfZero, pos.index);
__out(" |= ");
$(__. literal.hex, pos.mask);
__out("");.ln();
__out(" ");.ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
$(__. buildFromAttribute, v);
__ln();
__out(" ");
}
__dl();__ln();
__out(" ");
__dl();_it4.index++;
_it4.first = false;
}}
__dl();__ln();
__out(" ");
__dl();_it3.index++;
$(__, type_builderReturnType_1031721330.generics().args());

} else {
    $__dl();
}__out(" ");$(__, type.names().from);
__out("()");$(__, type.typeAbstract().relative());__out(" instance) {"}.ln();__out(" ");$(__, requireNonNull, type);__out("(instance, "instance");").ln();__out(" ");$(__ dynamicFromModifiableCheck, type, "instance", "");__ln();__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
        $__dl();__ln();__out(" ");$(__, buildFromAttribute, v);__ln();__out(" ");__dl();_it2.index++;
        _it2.first = false;
    }
}__dl();__ln();__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
    if ($if(type.builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        $__dl();__out("(");
        $(__, type.builderReturnThis_1267082624.typeBuilder());
        __out(" ");
    }
    __dl();__out("this");
}
__out(";").ln();__out(" ").ln();__out(" ");else {
    $__dl();__ln();__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
  "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
}
__ln();
__out(" public final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  __dl();
  if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
  } else {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
  }
  __dl();
  __out(" ");
  $(__, type.names().from);
  __out("(");
  $(__, type.typeAbstract().relative());
  __out(" instance \"");
  __out(" ");
  $(__, requireNonNull, type);
  __out("(instance, \"instance\")");
  __out(" ");
  $(__, dynamicFromModifiableCheck, type, "instance", "");
  __ln();
  __out(" ");
  $(__, org.immutables.generator.Templates.Iteration__it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __dl();__ln();
    __out(" ");
    $(__, buildFromAttribute, v);
    __ln();
    __out(" ");
    __dl();__it2.index++;
    __it2.first = false;
  }
  __dl();__ln();}
final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);

if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) { 
    $($.type_builderReturnThis_1267082624.typeBuilder());
    __.out(""");
}
___.dl();___.out("this");

}.___.out(";").ln();
___.out(""").ln();
___.out(" ");

}.___.dl();___.ln();
___.out(" ");

}.___.dl();___.ln();
___.out(" ");

}.___.dl();___.ln();
___.out(" ");

}.___.dl();___.ln();
___.out(" ");

}.

final org.immutables.generator.Templates.Invokable checkNotIsSet = new
org.immutables.generator.Templates.Fragment(1) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        final org.immutables.generator.Templates.Invokable checkNotIsSet = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        ___.ln();
        if ($if(v.containingType.isUseStrictBuilder())) {
            $(__.v.names.isSet());
            ___.out("()");
            $(__.v.names.raw);
            ___.out("\n");
        }
        ___.dl();___.ln();
        ___.dl();
final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = new org.immutables.generator.Templates.Fragment(1) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        __ln();
        __dl();
        if ($if(v.requiresTrackIsSet())) {
            __dl();{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
                final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($nondefaultsPositions, v));
                __dl();__ln();
                $(__, disambiguateField, type, "optBits");
                $(__, emptyIfZero, pos.index);
                __out(" |= OPT_BIT_");
                $(__, toConstant, v.name());
                __out(";").ln();
                __dl();_it2.index++;
                _it2.first = false;
            }
            __dl();
        }
        __dl();
    }
    __dl();__ln();
    __dl();
};

final org.immutables.generator.Templates.Invokable mandatorySetInBuilder = new org.immutables.generator.Templates.Fragment(1) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable mandatorySetInBuilder = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        __ln();
        __dl();
        if ($if(v.isMandatory())) {
            __dl();{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
                final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($positions, v));
                __dl();__ln();
                $(__, disambiguateField, type, "initBits");
                $(__, emptyIfZero, pos.index);
                __out(" &= ~INIT_BIT_");
                $(__, toConstant, v.name());
                __out(";").ln();
                __dl();_it2.index++;
                _it2.first = false;
            }
            __dl();
        }
        __dl();
    }
    __dl();__ln();
    __dl();
};

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```java
if ($if(v.isBuilderSwitcher())) {
  $.dl();
  $.ln();
  $.out("  ");
  {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.SwitcherModel.SwitchOption o : $in(v.builderSwitcherModel.options)) {
     $.dl();
     $.ln();
     $.out("  /**");
     $.ln();
     $.out("   * Switches { @code ");
     $($.v.name());
     $.out(" } to { @code ");
     $($_.o.constantName);
     $.out(".}.");
     $.ln();
     $.out("   * @return { @code this} builder for use in a chained invocation"));
     $.ln();
   }
  }
  $.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    $.dl();
    $.out("@Deprecated");
  }
}
```
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __.dl();__$(___ type_builderReturnType_1031721330.typeBuilder());
} else {
    __.dl();__$(___ type_builderReturnType_1031721330.typeBuilder().simple());
$(___. type_builderReturnType_1031721330.generics().args());
}

$___.out(" ");
$(___. o.switcherName);
$___.out("() { ").ln();
$___.out(" return ");
$(___. v.names.init);
$___.out(" ");
$(___. v.getRawType());
$___.out(".");
$(___. o.constantName);
$___.out(";").ln();
$___.out(" } ").ln();
$___.out(" ");
___.dl();___.it3.index++;
___.it3.first = false;
}

$___.dl();___.ln();
$___.out(" ");

$___.dl();___.ln();
$___.out(" ");
___.dl();
if ($if(v.isEncoding())) {
    __.dl();___.ln();
    $___.out(" ");
$(___. rr.builderInit(), v);
    ___.ln();
    $___.out(" ");
} else if ($if(v.isCollectionType())) {
    __.dl();___.ln();
    $___.out(" ");
    __.dl();
    if ($if($(!v.isBuilderParameter))) {
        __.dl();___.ln();
        __.ln();
        __.out(" /*");
    }
}
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
$.out(" ");
$.toLower, v.getRawCollectionType());
$.out(" ").ln();
$.out(" * @param element A ");
$.v.name());
$.out(" element").ln();
$.out(" * @return {code this} builder for use in a chained invocation").ln();
$.out(" *r").ln();
$.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
$.dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
$.dl();$.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
$.dl();
$.ln();
$.out(" ");
$.eachLine, v.initializerInjectedAnnotations());
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
$.dl();
if ($if(a_deprecation_286924011.deprecated)) {
$.dl();$.out("@Deprecated");
}
$.dl();
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
$.dl();
if ($if(a_deprecation_286924011.deprecated)) {
$.dl();$.out("@Deprecation");
}
$.dl();
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
$.dl();
if ($if(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
$.dl();$.dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
$.dl();$.out("private ");
}
$.dl();

if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
}

__dl();
__out(" ");
$(__, v.names.add());
__out("(");

if ($if($(not, a_atElementNullable_1621680092.nullElements.ban()))) {
    __dl();$(__, atNullable, a_atElementNullable_1621680092);
}

$(__, v.getUnwrappedElementType());
__out(" element { ").ln();
__out(" ");
__dl();

if ($if(v.isNullableCollector())) {
    __dl();__ln();
    __out(" if (this.");
    $(__, v.name());
    __out(" == null { ").ln();
    __out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
    __ln();
    __out(" ");
    __ln();
    __out(" ");
}

__dl();__ln();
__out(" ");
if ($if($isGenerateJdkOnly(), andnot, $isPrimitiveElement())) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
    if ($if($hasAttributeValue()) {
        __.dl();__.ln();
        __.out("      ");
        __.dl();
        if ($if($not, $nullElements.ban())) {
            __.dl();__.out("if (element != null) ");
        }
        __.dl();__.out("element = ");
    } final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
            __.out("element");
            __.dl();
        }};___.dl();___.dl();
    if ($if(v_deepCopyOf_1878776147.isAttributeBuilder()) {
        __.dl();$___.convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor();
        __.out("(");
        #___.expression_deepCopyOf_1878776147;
        __.out(")");
    } else {
        __.dl();$___.v_deepCopyOf_1878776147.attributeValueType.factoryCopyOf();
        __.out("(");
        #___.expression_deepCopyOf_1878776147;
        __.out(")");
    }
    __.dl();
    }
    __.out(";".In());
    __.out("    ");
}
___.dl();__.ln();
___.out("    ");
___.dl();
if ($if($nullElements.skip()) {
    __.dl();__.ln();
    __.out("      ");
    __.dl();
    if ($if($not, $nullElements.ban())) {
        __.dl();__.out("if (element != null) this.");
    }
    __.dl();
}
__out(".add(");
[final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 =$cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
this;
        __out("element");
        __dl();
    }
});__dl();__dl();
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) {
    __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(__, expression_maybeToBuilder_53814988);
        __dl();
    }});
} else {
    __dl();$(__, expression_maybeToBuilder_53814988);
}
__dl();
__out(";" ).ln();
__out("\n");
} else if ($if(v.nullElements.allow()) {
    __dl();__ln();
    __out(" this."");
    $(__, v.name());
    __out(".add(");
[final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 =$cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
this;
        __out("element");
        __dl();
    }
});__dl();__dl();
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) {
    __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(__, expression_maybeToBuilder_53814988);
        __dl();
    }});
}
if ($if(v.hasAttributeValue())) {
    __.dl();__.ln();
    __.out("    ");
    [final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
     final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new
     org.immutables.generator.Templates.Fragment(0) {
         @Override public void run(org.immutables.generator.Templates.Invokation __) {
             __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
             __.out("    ");
             __.dl();
         }};___.dl();___.dl();
    if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
        __.dl();$___.convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor();
        __.out("(");
        $___.expression_deepCopyOf_1878776147;
        __.out(")");
    } else {
        __.dl();$___.v_deepCopyOf_1878776147.getAttributeValueType.factoryCopyOf();
        __.out("(");
        $___.expression_deepCopyOf_1878776147;
        __.out(")");
    }
    ___.dl();
}___.ln();
___.out("    ");

}___.ln();
___.out("    ");
___.out("    ");

}
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();$___.expression_maybeToBuilder_53814988;
        __.dl();
    }};

} else {
    __.dl();$___.expression_maybeToBuilder_53814988;

    __.dl();
}

__.out(""").ln();
__.out(" ");

__.dl();__.ln();
__.out(" ");
$___.nondefaultSetInBuilder, v);
__.ln();
__.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        __.dl();__.out("(");
        $___.type_builderReturnThis_1267082624.typeBuilder();
        __.ln();
        __.out(" ");
    }
    __.dl();__.out("this");
}

__.out(";").ln();
__.out(" ");
___.ln();
__.out(" ");
___.dl();
if ($if(v.getConstructorParameters())) {
    __.dl();__.ln();
    __.ln();
    __.out(" /**").ln();
    __.out(" * Constructs and adds an element for the ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        $(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(" ");
    $(___.toLowerCase, v.getRawCollectionType());
    __.out(".").ln();
}
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
  __.dl();___.ln();
  __.out(" * @param ");
  $___.c.name();
  __.out(" The value for { @code ");
  $__/_.v.name();
  __.out(" .");
  $__/_.c.name();
  __.out(" } ");
  __.dl();
  if ($if(c.isNullable())) {
    __.dl();___.out("(can be { @code null})");
  }
  __.dl();___.ln();
  __.out(" ");
  __.dl();_it3.index++;
  _it3.first = false;
}
___.dl();___.ln();
___.out(" * @return { @code this } builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
$__/_.eachLine, v.elementInitializerInjectedAnnotations();
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __.dl();___.out("@Deprecated");
  }
  __.ln();
  __.ln();
  ___.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __.dl();
    if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
      a_builderInitAccess_991723715.isBuilderSwitcher()))) {
      __.dl();___.dl();
      if ($if($(a_builderInitAccess_991723715.containingType.kind().isFactory()))) {
        __.dl();___.dl();
        if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
          __.dl();___.out("private ");
        }
      }
    }
  }
}
__.dl();
} else {
    __.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}

__.dl();
}
__.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
}
__.dl();
__.out(" ");
$(__, v.names.add());
__.out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __.dl();___.dl();
    if ($if($(not, _it3.first))) {
        __.dl();__.dl();__.out(",");
    }
    __.dl();$(__, c.atNullability());
    $(__, c.getType());
    __.out(" ");
    $(__, c.name());
    ___.dl();_it3.index++;
    _it3.first = false;
}
}___.dl();___.out(")".ln();
___.out(" return ");
$(__, v.names.add());
___.out("(");
$(__, v.getAttributeValueFactoryOf());
___.out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __.dl();___.dl();
}
if ($if($not._it3.first)) {
    __.dl();___.out(" ");
}
___.dl();$(_.c.name());
___.dl();_it3.index++; _it3.first = false;
}
___.dl();___.out(" ");).ln();
___.out(" ").ln();
___.out(" ");
}
___.dl();___.ln();
___.ln();
___.out(" ");.ln();
___.out(" ");
___.out(" ");.ln();
___.out(" ");.ln();
___.out(" ");.ln();

{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

}
___.out(" ");
$___.toLower, v.getRawCollectionType());
___.out(" ");.ln();
___.out(" * @param elements An array of ");
$___.v.name());
___.out(" elements").ln();
___.out(" * @return { @code this } builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");.

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
___.dl();
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue").
)}
___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");

}
___.dl();
___.ln();
___.out(" ");
$___.eachLine, v.elementInitializerInjectedAnnotations());
___.ln();
___.out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();__out("@Deprecated");

__dl();
__ln();
__out("  ");
final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables))) {
  __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out("  ");
final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  __dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __dl();__out("private ");
  } else {
    __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
  }
} else {
  __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__dl();
__out("final ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $__(), type_builderReturnType_1031721330.generics().args());
}
__dl();
__out("  ");
$(__, v.names.addv());
__out("(");
$(__, v.getUnwrappedElementType());
__out("... elements) {".ln();
__out("  ");
__dl();
if ($(v.isNullCollector())) {
  __dl();__ln();
  __out("  if (this.");
  $(__, v.name());
  __out(" == null) {".ln();
  __out("  ");
  $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
  __ln();
  __out("  ");
  __ln();
}
__dl();__ln();
__out("  ");
__dl();
if ($(v.isGenerateJdkOnly(), or, v.hasAttributeValue())) {
  __dl();__ln();
  __out("  for (";
  $(__, v.getUnwrappedElementType());
  __out("  element : elements) {".ln();
  __out("  ");
  __dl();
  if ($(v.hasAttributeValue())) {
    __dl();__ln();
    __out("  ");
    __dl();
    if ($(not, v.nullElements.ban())) {
      __dl();__out("if (element != null) ");
    }
  }
  __dl();__out("element = ");
  [final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
      __out("element");
      __dl();
    } });__dl();__dl();
  if ($(v_deepCopyOf_1878776147.isAttributeBuilder()) {
    __dl();$(__, convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
    __out("(");
  }
$(__, expression_deepCopyOf_1878776147);
__out("");}
}
$__dl();$__out("");
__out("".
$__________

$__dl();
$__out(";");__ln();
$__out(" ");

$__dl();__$ln();
$__out(" ");
$__dl();if ($if$(v.isPrimitiveElement(), or, v.nullElements.allow())) {
  $__dl();__$ln();
  $__out(" this.");
  $(__, v.name());
  $__out(".add(");
  [final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
   final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
   org.immutables.generator.Templates.Fragment(0) {
     @Override public void run(org.immutables.generator.Templates.Invokation __) {
     __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
     this;
     __out("element");
     __dl();
   });__$dl();__$dl();
  if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) {
    $__dl();__$out(".valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
    org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__$out(".expression_maybeToBuilder_53814988");
      __dl();
    });
  } else {
    $__dl();__$out(".expression_maybeToBuilder_53814988");
  }
  $__dl();
  $__out(";".

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        __.out("      ");
    } else if ($if(v.nullElements.skip()) {__
        __.dl();___.ln();
        __.out("      if (element != null) this.");
        $(__, v.name());
        __.out("      .add(");
    } final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {__
        @Override public void run(org.immutables.generator.Templates.Invocation __) {__
        __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
        __.out("element");
        __.dl();
    }};___.dl();
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) {__
        __.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
        org.immutables.generator.Templates.Fragment(0) {__
            @Override public void run(org.immutables.generator.Templates.Invokation __) {__
            __.dl();$(__, expression_maybeToBuilder_53814988);
            __.dl();
        });
    } else {
        __.dl();$(__, expression_maybeToBuilder_53814988);
    }
    __.dl();
    }___.dl();
    __.out(";").ln();
    __.out("      ");
} else {
    __.dl();___.ln();
    __.out("      this.");
    $(__, v.name());
    __.out("      .add(");
} final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {__
        @Override public void run(org.immutables.generator.Templates.Invocation __) {__
        __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
        $(__, requireNonNull, type);
        __.out("element, \"");
        $(__, v.name());
        __.out("          element\"\"));
        __.dl();
Open Source Used In kASA v1.1 1970

```java
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
    $.dl();$___.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            $.dl();$___.expression_maybeToBuilder_53814988;$.dl();
        }
    });
} else {
    $.dl();$___.expression_maybeToBuilder_53814988;
}

$.dl();
$.out(";").ln();
$.out("    ");

$.dl();$.ln();
$.out("    ");$.ln();
$.out("    ");
}
else {
    $.dl();$.ln();
    $.out("    ");
    $.dl();
    if ($if(v.wrapArrayToIterable())) {
        $.dl();$.ln();
        $.out("    this.");
        $.(__, v.name());
        $.out("    .addAll(");
        $.dl();
        if ($if(v.isAttributeBuilder())) {
            $.dl();{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
            $.dl();"convertToBuilderType");
            $.(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
        }
        $.out("(elements)");
    } else {
        $.dl();$___.arrayAsList, v, "elements";
    }
    $.dl();$.out(";");$.ln();
    $.out("    ");
```
} else {
    __.dl();__.ln();
    __.out("  this.");
    $(__, v.name());
    __.out(".");
    __.dl();
    if ($if(v.isAttributeBuilder())) {
        __.dl();___.out("addAll(");
        {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
            __.out("convertToBuilderType");
            $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
        }
        __.out("(elements))");
    } else {
        __.dl();___.out("add(elements)");
    }
    __.dl();__.out(";").ln();
    __.out(" ");
}

___.dl();__.ln();
___.out(" ");
$(__, nondefaultSetInBuilder, v);
___.ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        __.dl();___.out("(");
        $(__, type_builderReturnThis_1267082624.typeBuilder());
        __.out(" ) ");
    }
    __.dl();___.out("this");
}
___.out(";").ln();
___.out(" ");.ln();
___.ln();
```java
    __.out(" ");
    __.dl();
    if (Sift(v.isAttributeBuilder())) {
      __.dl();___.ln();
      __.out(" /**").ln();
      __.out(" * Adds a new builder to the ");
      {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 =$cast(v);
        ___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(" ");
    __.dl();
    ___.out(" and returns").ln();
    __.out(" * the builder.").ln();
    __.out(" */").ln();
    __.out(" ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
      $cast(type);
      __.dl();
      if (Sift($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
        "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
        __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
      }
      __.dl();
    }
    __.ln();
    __.out(" ");
    {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
      __.dl();
      if (Sift(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecated");
      }
      __.dl();
    }
    __.ln();
    __.out(" ");
    {final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
      __.dl();
      if (Sift($(a_varargsSafety_1368213209.isNonRawElementType(), or,
        a_varargsSafety_1368213209.hasTypeVariables))) {
        __.dl();___.out("@SafeVarargs @SuppressWarnings("varargs")");
      }
      __.dl();
    }
```

public final {
    final org.immutables.value.processor.meta.AttributeBuilderDescriptor
    n_attributeBuilderBuilderType_1431666641 =$cast(v.getAttributeBuilderDescriptor());
    $(_. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}

$.out(" ");
$.out("() { 
    
    if ($if(v.isNullableCollector())) {
        
        if (this.
            $_. v.name();
        
        $_. defineOrResetBuildingFieldAlt, v, $$false, $$false); 
        
        $_.ln();
        $.out(" ");
    }

    
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
        n_attributeBuilderBuilderType_1431666641 =$cast(v.getAttributeBuilderDescriptor());
        $(_. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    }

    $.out(" builder = ");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
        =$cast(v.getAttributeBuilderDescriptor());
        $(_. n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
        $.out("() ");
    }

    
    this.
        $_. v.name();
    
    return builder;
    
    return builder; 
    
    
    } 


open source used in kasa v1.1 1973
__out(" ");
$__().ln();
__out(" * @param elements An array of ");
$__().ln();
__out(" builder elements").ln();
__out(" * @return [ @code this ] builder for use in a chained invocation").ln();
__out(" */").ln();
$__();}{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValu e ");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables))) {
  __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {

if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
  __.dl();__.out("private ");
}
__.dl();
} else {
  __.dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
___.dl();
} ___.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  ___.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  ___.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
___.dl();
} ___.out(" ");
$(__, v.names.addAllBuilder());
___.out(" ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
  n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
  $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
___.out("...").ln();
___.out(" ");
___.dl();
if ($if(v.isNullableCollector())) {
  ___.dl();___.ln();
  ___.out(" if (this.");
  $(__, v.name());
  ___.out(" == null) ").ln();
  ___.out(" ");
  $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
  __.ln();
  __.out(" ").ln();
  __.out(" ");
}
```java
if ($if($(v.isGenerateJdkOnly(), or, v.hasAttributeValue()))) {
    if ($if($(v.isPrimitiveElement(), or, v.nullElements.allow()))) {
        this.
    } else if ($if(v.nullElements.skip())) {
        if (element != null) this.
    } else {
        this.
    }
}
```
```
__.dl();__.ln();
__.out("    this.");
$(__, v.name());
__.out("    .addAll(");
$(__, arrayAsList, v, "elements");
__.out(";").ln();
__.out("    ");

} else {
    __.dl();__.ln();
    __.out("    this.");
    $(__, v.name());
    __.out("    .add(elements);").ln();
    __.out("    ");

    __.dl();__.ln();
    __.out("    ");

    __.dl();__.ln();
    __.out("    ");
$(__, nondefaultSetInBuilder, v);
    __.ln();
    __.out("    return ");

    {final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
        __.dl();
        if (Sif(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
            __.dl();__.out("(");
            $(__, type_builderReturnThis_1267082624.typeBuilder());
            __.out(") ");

            __.dl();__.out("this");

            __.out(";").ln();
            __.out("  ").ln();
            __.ln();
            __.out("    ").ln();
            __.out("    ");

            __.out(" * Gets the builder elements to ");
        }

        $(__ sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }

    __.out(" ");
$(__ toLower, v.getRawCollectionType());
    __.out(".").ln();
  * @return @code this unmodifiable list of modifiable builders.
  */

  public final java.util.List<
  AttributeBuilderDescriptor
  n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
  $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

  }  
  __out(">");  
  $(__, v.names.getBuilders());  
  __out("() ");
  __out(" ");
  __dl();  
  if ($if(v.isGenerateJdkOnly())) {  
    __dl(); __ln();  
    __out(" return createUnmodifiableList(false, this.");  
    $(__, v.name());  
    __out(";");
    __out(" ");
  } else {
    __dl(); __ln();  
    __out(" return this.");  
    $(__, v.name());  
    __out(" .build();");
    __out(" ");
```java
if ($if($not($isUseStrictBuilder()))) {
  __.dl();
  __.ln();
  __.out("  */*").ln();
  __.out("  * Sets or replaces all elements for ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
}

$(__, toLower, v.getRawCollectionType());
___.out("  * @param elements An iterable of ");
$(__, v.name());
___.out("  * @return {
    __.dl();
    __.ln();
    __.out("  *//").ln();
    __.out("  * @return { @code this } builder for use in a chained invocation").ln();
    __.out("  */").ln();
    __.out("  ");
    $(__, eachLine, v.initializerInjectedAnnotations());
    ___.ln();
    ___.out("  ");
)

$(__, eachLine, v.getBuilderAttributeAnnotation());
___.ln();
___.out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    ___.dl();
    ___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
}
```
final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl__;
if ($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
__dl__;
if ($(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
__dl__; $(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__dl__;
} else {
__dl__;$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
__dl__;
__out__("final ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl__;
if ($(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
__dl__; $(__, type_builderReturnType_1031721330.typeBuilder());
} else {
__dl__; $(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
__dl__;
__out__(" ");
$(__, v.names.init);
__out__("(");
$(__, v.atNullability());
__out__("Iterable<");
$(__, v.getConsumedElementType());
__out__(" elements) [".ln();
__out__(" ");
__dl__;
if ($(v.isNullable())) {
__dl__; __ln__;
__out__(" if (elements == null) ");.ln();
```java
    __out("      ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$true);
    __ln();
    __out("      ");
    $(__, nondefaultSetInBuilder, v);
    __ln();
    __out("      return ");
    [final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __dl();__out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    __out(") ");
    }
    __dl();__out("this");
    __out(":"),ln();
    __out("  ").ln();
    __out(" ");
    }
    __dl();__ln();
    __out(" ");
    [final org.immutables.value.processor.meta.ValueAttribute v_defineOrResetBuildingField_1809684382 =
    $cast(v);
    final java.lang.Boolean declare_defineOrResetBuildingField_1809684382 = $cast($$false);
    $(__, defineOrResetBuildingFieldAlt, v_defineOrResetBuildingField_1809684382,
    v_defineOrResetBuildingField_1809684382, $$false);
    }
    __ln();
    __out("      return ");
    $(__, v.names.addAll());
    __out("(elements);"),ln();
    __out("  ").ln();
    __out(" ");
    }
    __dl();__ln();
    __out(" ");
    }
    __dl();__ln();
    __ln();
    __out(" /**");.ln();
    __out("  * Adds elements to ");
    ```
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

$___.out(" ");
$___.toLower, v.getRawCollectionType();
$___.out(" ").ln();
$___.out(" * @param elements An iterable of ");
$___.v.name());
$___.out(" elements").ln();
$___.out(" * @return [ @code this } builder for use in a chained invocation").ln();
$___.out(" */").ln();
$___.out(" ");
$___.eachLine, v.initializerInjectedAnnotations());
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
$___.dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) { 
  $___.dl();___.out(" @com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if (Sif$(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) { 
  $___.dl();___.out(" @Deprecated");
  }
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($iff(a_deprecation_286924011.deprecated)) { 
  $___.dl();___.out(" @Deprecated");
  }
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($iff(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) { 
  $___.dl();___.dl();
  if $(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
    $___.dl();___.out("private ");
  }
  $___.dl();
}
$.out("    for (");
$.out($_. v.getUnwrappedElementType());
$.out(" element : elements ("),ln();
$.out("   ");
$.dl();
if ($if(v.hasAttributeValue())) {
  $.dl();$.ln();
  $.out("   ");
  $.dl();
  if ($if($(not, v.nullElements.ban()))) {
    $.dl();$.out("if (element != null) ");
  }
  $.dl();$.dl();
  if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
    $.dl();$.out("element = ");
  } else {
    $.dl();$.out("element = ");
  }
}

{final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
 final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new
 org.immutables.generator.Templates.Fragment(0) {
   @Override public void run(org.immutables.generator.Templates.Invokation __) {
     __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
     __.out("element");
     __.dl();
   }};___.dl();___.dl();
if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
  ___.dl();$.(___ convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
  __.out("(");
  $.(___ expression_deepCopyOf_1878776147);
  __.out(""");
} else {
  ___.dl();$.(___ v_deepCopyOf_1878776147.attributeValueType.factoryCopyOf());
  __.out("(");
  $.(___ expression_deepCopyOf_1878776147);
  __.out(""");
}

}___.dl();
}___.dl();
$.out(";"),ln();
$.out("   ");

}___.dl();___.ln();
$.out("   ");
$.dl();
if ($if(v.nullElements.allow())) {
  ___.dl();___.ln();
  __.out("   this.");
  $.(___ v.name());
}
__out("\n");  
{final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);  
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new  
org.immutables.generator.Templates.Fragment(0) {  
  @Override public void run(org.immutables.generator.Templates.Invokation __) {  
    __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;  
    __out("element");  
    __dl();  
    });__dl();__dl();  
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {  
    __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new  
org.immutables.generator.Templates.Fragment(0) {  
  @Override public void run(org.immutables.generator.Templates.Invokation __) {  
    __dl();$(__, expression_maybeToBuilder_53814988);  
    __dl();  
  });  
}  
else {  
  __dl();$(__, expression_maybeToBuilder_53814988);  
  __dl();  
}  
__out("\n");\n;  
__out("\n");  
} else if ($if(v.nullElements.skip())) {  
  __dl();\n;  
  __out(" if (element != null) this.");  
$(__, v.name());  
__out("\n");  
{final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);  
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new  
org.immutables.generator.Templates.Fragment(0) {  
  @Override public void run(org.immutables.generator.Templates.Invokation __) {  
    __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;  
    __out("element");  
    __dl();  
    });__dl();__dl();  
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {  
    __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new  
org.immutables.generator.Templates.Fragment(0) {  
  @Override public void run(org.immutables.generator.Templates.Invokation __) {  
    __dl();$(__, expression_maybeToBuilder_53814988);  
    __dl();  
  });  
}};
} else {
  __dl();__ln();
  __out("   this.");
  $(__, v.name());
  __out(".addAll()");
  __dl();
  if ($if(v.isAttributeBuilder())) {
    __dl();{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
      n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
      __out("convertToBuilderType");
      $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
    }
    __out("(elements)");
  } else {
    __dl();__out("elements");
  }
  __dl();__out(";").ln();
  __out("   ");
}
__dl();__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  __dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {__dl();__out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    __out(" ");
  }
  __dl();__out("this");
}
__out(";").ln();
__out("   ");.ln();
__out("   ");
__dl();
if ($if(v.isAttributeBuilder())) {
  __dl();__ln();
  __ln();
  __out(" /**");.ln();
  __out(" * Adds elements to ");
```java
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$___.toLowerCase, v.getRawCollectionType();
__out(".").ln();
__out(" * @param elements An iterable of ");
$___.name().ln();
__out(" builder elements").ln();
__out(" * @return CODE THIS builder for use in a chained invocation").ln();
__out(" *").ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {__dl();__out("@Deprecated");}
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
__dl();__dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
__dl();__out("private ");
}
__dl();
} else {
__dl();$___.a_builderInitAccess_991723715.getIntializerAccess();
}
```

for ("");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(_, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(" element : elements) ");
__out(" ");
__dl();
if ($if(v.nullElements.allow()) { __dl();__ln(); __out(" this."); $(_, v.name()); __out(" .add(element);").ln(); __out(" "); }
else if ($if(v.nullElements.skip()) { __dl();__ln(); __out(" if (element != null) this."); $(_, v.name()); __out(" .add(element);").ln(); __out(" "); }
else {
__dl();__ln(); __out(" this."); $(_, v.name()); __out(" .add(");
$(_, requireNonNull, type); __out("(element, ");
$(_, v.name()); __out(" .element("));.ln(); __out(" ");
}
__dl();__ln(); __out(" ");
__out(" ");
}
else {
__dl();__ln(); __out(" this."); $(_, v.name()); __out(" .addAll(elements);").ln(); __out(" ");
}
__dl();__ln();
  } else if ($if(v.isOptionalType())) {
    __dl();__ln();
    __out(" ");
    __dl();
  } else if ($if($not, v.isBuilderParameter)) {
    __dl();__ln();
    __out(" /*");
    __out(" * Initializes the optional value ");
  }

  __out(" to ");
  $___.v.name();
  __out(".");
  __out(" *");
  __out("");
  __out(" The value for ");
  $___.v.name();
  __dl();
  if ($if(v.isOptionalAcceptNullable())) {
    __dl();__out(" [code null] is accepted as [code ");
  }

  __out(".");
  __out(" ");
}
if ($if($a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
  __.dl();___.dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __.dl();___.out("private ");
  }
  __.dl();
} else {
  __.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
  __.dl();
} __.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  __.dl();
  if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
  } else {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
  }
  __.dl();
} __.out(" ");
$(__, v.names.init);
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 =
  $cast(v);
  __.dl();
  if ($if($a_unwrappedOptionalType_1615308684.isOptionalType(), and,
a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {
    __.dl();$(__, a_unwrappedOptionalType_1615308684.typeBuilder());
    $(__, a_unwrappedOptionalType_1615308684.getWrappedElementType());
  } else {
    __.dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
  }
  __.dl();
} __.out(" ");
$(__, v.name());
___.out(" ");
___.ln();
___.out(" ");
$(__, checkNotIsSet, v);
__ln();
__out(" ");
__dl();
if ($if($(v.isJdkOptional(), and, type.kind().isFactory()))) {
  __dl();__ln();
  __out(" this.");
$(__, v.name());
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
$(__, a_optionalOf_332927268.getRawType());
__out(".");
__dl();
if ($if(($not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
  __dl();__dl();
  if ($if($(a_optionalOf_332927268.isFugueOptional(), or,
a_optionalOf_332927268.isJavaslangOptional()))) {
    __dl();__out("some");
  } else {
    __dl();__out("of");
  }
} __dl();} else if ($if(a_optionalOf_332927268.isJdkOptional())) {
  __dl();__out("ofNullable");
} else if ($if(a_optionalOf_332927268.isFugueOptional())) {
  __dl();__out("option");
} else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
  __dl();__out("of");
} else {
  __dl();__out("fromNullable");
}
__dl();}}
__dl();
}__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
$(__, v.name());
__dl();
});__dl();__dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __dl();__out("immutableCopyOf");
if ($if($(v.isJdkOptional(), and, $($(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()), or, v.isPrimitiveElement())))) {
    __.dl();___.ln();
    __.out("    this.");
    $(__, v.name());
    __.out(" = ");
    {final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
     final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
            if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
                __.dl();___.ln();
                __.out("immutableCopyOf(");
                $(__, expression_maybeCopyOf_1779456614);
                __.out(")");
            } else {
                __.dl();$(__, expression_maybeCopyOf_1779456614);
            }
        }
    };___.dl();
    if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf()) {
        __.dl();___.ln();
        __.out(" immutableCopyOf(");
        $(__, expression_maybeCopyOf_1779456614);
        __.out(")");
    } else {
        __.dl();$(__, expression_maybeCopyOf_1779456614);
    }
    __.dl();
    __.out(";").ln();
    __.out(" ");
} else if ($if(v.isJdkOptional())) {
    __.dl();___.ln();
    __.out(" this.");
    $(__, v.name());
    __.out(" = ");
    n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
    if ($if(v.isAttributeBuilder())) {
        __.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor
gen_attributeBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
    }
final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new 
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 =
        this;
        $(___. requireNonNull, type);
        __out("(");
        $(____, v.name());
        __out(",", "\n");
        $(____, v.name());
        __out("\")
        __dl();
    });__dl();__dl();
    if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        __dl();$(____, expression_valueToBuilder_1442539515);
        __out(".");
        $(____, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __out("()\n");
    } else {
        __dl();$(____, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __out("()\n");
        $(____, expression_valueToBuilder_1442539515);
        __out("\n");

    }
    __dl();
}
__out(";\n");
}
else {
    __dl();{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 =
    $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new 
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
        this;
            $(____, requireNonNull, type);
            __out("(");
            $(____, v.name());
            __out(",", "\n");
            $(____, v.name());
            __out("\")
            __dl();
        });__dl();__dl();
        if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
            __dl();__out("immutableCopyOf(");
        }}}}
$(__, expression_maybeCopyOf_1779456614);
__out("")
}

} else {
__dl();$(__, expression_maybeCopyOf_1779456614);

} __dl();
}
__out(";");

} __dl();__ln();
__out(" ");

} else {
__dl();__ln();
__out("  this.");
$__(__, v.name());
__out(" = ");
    {final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
    $__(__, a_optionalOf_332927268.getRawType());
    __out(".");
    __dl();
    if ($if($(not, a_optionalOf_332927268.isOptionalAcceptNullable()))) {
        __dl();__dl();
        if ($if($(a_optionalOf_332927268.isFugueOptional(), or,
            a_optionalOf_332927268.isJavaslangOptional()))) {
            __dl();__out("some");
        } else {
            __dl();__out("of");
        }
    } else if ($if(a_optionalOf_332927268.isJdkOptional())) {
        __dl();__out("ofNullable");
    } else if ($if(a_optionalOf_332927268.isFugueOptional())) {
        __dl();__out("option");
    } else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
        __dl();__out("of");
    } else {
        __dl();__out("fromNullable");
    }
    __dl();
}
__out("(");
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    if (v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf) {
        __.out("immutableCopyOf(");
        __.out(expression_maybeCopyOf_1779456614);
        __.out(")");
    } else {
        __.out(expression_maybeCopyOf_1779456614);
    }
}

if (nondefaultSetInBuilder, v) {

    return 
}

if (type_builderReturnThis_1267082624.isExtending) {
    __.out("(");
    __.out(type_builderReturnThis_1267082624.typeBuilder());
    __.out(" )");
}

if (v.isAttributeBuilder()) {

    __.out("/**");
}

if (v.isAttributeBuilder()) {

    __.out("/**");
}

* Returns a builder for *

Once called, the attribute builder field is set to a new instance of the builder.
If called more than once, returns the same builder instance.
*/

\$(__, eachLine, v.getBuilderAttributeAnnotation());

\$(__, n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());

\$(__, v.names.getBuilder());
__.out("() {").ln();
__.out("      if (this.");
$___.v.name();
__.out(" == null) {").ln();
__.out("      this.");
$___.v.name();
__.out(" = ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279 = $cast(v.getAttributeBuilderDescriptor());
  $___.n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod();
  ___.out("()");
}
__.out(",").ln();
__.out(" }").ln();
__.out(" ");
$___.nondefaultSetInBuilder, v);
___.ln();
__.out(" ");
$___.mandatorySetInBuilder, v);
___.ln();
___.out(" return this.");
$___.v.name();
__.out(",").ln();
__.out(" }").ln();
___.ln();
__.out(" /**<");
__.out(" * Sets ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(_. sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__.out(" to the provided builder.");
__.out(" */");
__.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    ___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  ___.dl();
  ___.ln();
  ___.out(" ");
$(__, eachLine, v.getBuilderAttributeAnnotation());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  __dl();__dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __dl();__out("private ");
  }
  __dl();
} else {
  __dl();$___.a_builderInitAccess_991723715.getInitializerAccess();
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$___.type_builderReturnType_1031721330.typeBuilder();
} else {
  __dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
  $(___.type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
$(___.v.names.setBuilder());
__out("(");
$(___.v.isNullability());
$(___.v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
__out(" ");
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
  __.dl();___.ln();
  __.out("  * @param ");
  $(__, c.name());
  __.out(" The value for { @code ");
  $(__, v.name());
  __.out(".");
  $(__, c.name());
  __.out(" } ");
  __.dl();
  if ($if(c.isNullable())) {
    __.dl();___.out("(can be { @code null})");
  }
  __.dl();___.ln();
  __.out(" ");
  __.dl();___.it3.index++;
  ___.it3.first = false;
}___.dl();___.ln();
___.out("  * @return { @code this} builder for use in a chained invocation").ln();
___.out("  *");
$(__, eachLine, v.elementInitializerInjectedAnnotations());
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
  $cast(type);
  __.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __.dl();
}___.ln();
___.ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __.dl();___.out("@Deprecated");
  }
  __.dl();
}___.ln();
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```java
__.dl();__.out("} {").ln();
__.out("    return ");
$.(__, v.names.init);
__.out("(");
$.(__, v.attributeValueType.factoryOf());
__.out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__.dl();__.dl();
 if ($if($(not, _it3.first))) {
__.dl();__.out(",
");
}
__.dl();$(__, c.name());
__.dl();_it3.index++;
_it3.first = false;
}
__.dl();__.out(");").ln();
__.out(" } ").ln();
__.out(" ");
}
__.dl();__.ln();
__.out(" ");
}

__.dl();__.ln();
__.ln();
__.out(" /**").ln();
__.out(" * Initializes the optional value *");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$.(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__.out(" to ");
$.(__, v.name());
__.out(" ").ln();
__.out(" * @param ");
$.(__, v.name());
__.out(" The value for ");
$.(__, v.name());
__.ln();
__.out(" * @return [ @code this ] builder for use in a chained invocation ").ln();
__.out(" */").ln();
__.out(" ");
__.dl();
if ($if($($type.kind().isFactory(), ornot, v.isJdkOptional()))) {
```
_.dl();_.ln();
$.(__, suppressCovariantCastForOptional, v);
_.ln();
_.out("  ");

}
_.dl();_.ln();
_.out("  ");
$.(__, eachLine, v.initializerInjectedAnnotations());
_.ln();
_.out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  _.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    _.dl();_.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  _.dl();
}
_.ln();
_.out("  ");
$.(__, eachLine, v.getBuilderAttributeAnnotation());
_.ln();
_.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  _.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    _.dl();_.out("@Deprecated");
  }
  _.dl();
}
_.ln();
_.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  _.dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    _.dl();_.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      _.dl();_.out("private ");
    }
    _.dl();
  } else {

```java
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __.dl();
        type_builderReturnType_1031721330.typeBuilder();
    } else {
        __.dl();
        type_builderReturnType_1031721330.typeBuilder().simple();
        $(__, type_builderReturnType_1031721330.generics().args());
    }
    __.dl();
    __.out(" ");
    $(__, v.names.init);
    __.out("(");
    $(__, v.getRawType());
    __.dl();
    if ($if($not, v.isJdkSpecializedOptional())) {
        __.dl();
        __.out("<");
        $(__, v.getConsumedElementType());
        __.out(">");
    }
    __.dl();
    __.out(" ");
    $(__, v.name());
    __.out(" "){}.ln();
    __.out(" ");
    $(__, checkNotIsSet, v);
    __.ln();
    __.out(" ");
    __.dl();
    if ($if($v.isJdkOptional(), and, type.kind().isFactory())) {
        __.dl();
        __.ln();
        $(__, v.name());
        __.out(" ");
        $(__, v.getType());
        __.out(" ");
        $(__, requireNonNull, type);__ .out("\n");
```

$(__, v.name());
__out("\n");.ln();
__out(" ");
} else if ($if(v.isAttributeBuilder()) {
__dl();__ln();
__out("this.");
$___.v.name();
__out(" = ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
__out("convertToBuilderType");
$___.n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();

}
__out("(");
$___.valueFromValue, v, v.name();
__out(";").ln();
__out(" ");
}
 else {
__dl();__ln();
__out("this.");
$___.v.name();
__out(" = ");
$___.valueFromValue, v, v.name();
__out(";").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
$___.nondefaultSetInBuilder, v;
__ln();
__out("return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$___.type_builderReturnThis_1267082624.typeBuilder();
__out(" ");
}
__dl();__out("this");

__out(";").ln();
__out(" ");.ln();
__out(" ");}
} else if ($if(v.isMapType())) {
    __dl();__ln();
    __out(" ");
    {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
     final java.lang.String gE = $cast(v.getConsumedElementType());
     final java.lang.String uK = $cast(v.getUnwrappedElementType());
     final java.lang.String wK = $cast(v.getWrappedElementType());
     final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
     final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
     __dl();__ln();
     __out(" ");
     __dl();
     if ($if(v.isMultimapType())) {
         __dl();__ln();
         __out(" ");
         __dl();
         if ($if(!v.isBuilderParameter)) {
             __dl();__ln();
             __ln();
             __out("/**").ln();
             __out("* Put all mappings from the specified key to values for ");
             {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
              $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
              }
             __out(" ");
             $(___.toLowerCase, v.isMapType());
             __out(" . Nulls are not permitted").ln();
             __out("* @param key The key for ");
             $(___.toLowerCase, v.name());
             __ln();
             __out("* @param values The values for ");
             $(___.toLowerCase, v.name());
             __ln();
             __out("* @return \{ @code this \} builder for use in a chained invocation");
             __out(" */").ln();
             __out(" ");
             $(___.eachLine, v.elementInitializerInjectedAnnotations());
             __ln();
             __out(" ");
             {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
              $cast(type);
              __dl();
              if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue").
              ) {
                  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
              }
          }
      }
  }
}
} else {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
}

    __.dl();
} __.out(" ");
$(__, v.names.putv());
___.out("(");
$(__, uK);
___.out(" key, ");
$(__, uV);
___.out("... values) ").ln();
___.out(" ");
___.dl();
if ($if(v.isNullable())) {
    __.dl();__.ln();
    ___.out(" if (this.");
    $(__, v.name());
    ___.out(" == null) ").ln();
    ___.out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
    __.ln();
    ___.out(" }").ln();
    ___.out(" ");

}
___.dl();__.ln();
___.out(" this.");
$(__, v.name());
___.out(".putAll(key, ");
$(__, arrayAsListSecondary, v, "values");
___.out(";").ln();
___.out(" ");
$(__, nondefaultSetInBuilder, v);
___.ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __.dl();__.out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    __.out(" ");
}
___.dl();__.out("this");
    __out("/**").ln();
    __out("   * Put all mappings from the specified key to values for ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
      $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out("   * @param key The key for ");
    $(__, v.name());
    __ln();
    __out("   * @param values The values for ");
    $(__, v.name());
    __ln();
    __out("   * @return {code this} builder for use in a chained invocation").ln();
    __out("   */").ln();
    __out("   */").ln();
    $(__, eachLine, v.elementInitializerInjectedAnnotations());
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
     if ($if(a_deprecation_286924011.deprecated)) {
       __dl();
       __out("@Deprecated")
     }
    }
    __dl();
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
     if ($if(a_deprecation_286924011.deprecated)) {__dl();
       __out("@Deprecated")
     }
    }
    __dl();
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
     if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
       __dl();
       __out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
     }
    }
    __dl();
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
     if ($if(a_deprecation_286924011.deprecated)) {__dl();
       __out("@Deprecation")
     }
    }
    __dl();
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
if ($(a_builderInitAccess_991723715.contains.isBuilderParameter, or, a_builderInitAccess_991723715.contains.isBuilderSwitcher())) {
    __dl();
    if ($(a_builderInitAccess_991723715.contains.getType().isFactory())) {
        __dl();
        ___out("private ");
    }
    __dl();
} else {
    __dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
__dl();
__out("final ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($(type_builderReturnType_1031721330.contains.getInnerBuilder().isExtending)) {
    __dl();$(__, type_builderReturnType_1031721330.contains.typeBuilder());
} else {
    __dl();$(__, type_builderReturnType_1031721330.contains.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.contains.generics().args());
}
__dl();
__out(" ");
$(__, v.names.putAll());
__out("(");
$(__, uK);
__out(" key, Iterable<");
$(__, wV);
__out(" > values \} ").ln();
__out(" ");
__dl();
if ($(v.isNull())) {
    __dl();__ln();
    __out(" if (this.");
    $(__), v.name();
    __out(" == null \} ").ln();
    __out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $false, $false);
    __ln();
    __out(" ");
}
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __.dl();___.out("(");
    ___.out(type_builderReturnThis_1267082624.typeBuilder());
    ___.out(" )");
}

if ($if($not, v.isBuilderParameter)) {
    __.dl();___.out("**");
    ___.out(" Put one entry to the ");
    ___.out(" map.");
    ___.out(" @param key The key in the ");
    ___.out(" map");
    ___.out(" @param value The associated value in the ");
}
__.out(" map").ln();
__.out(" * @return [ @code this ] builder for use in a chained invocation").ln();
__.out(" */").ln();
__.out(" ");
$___.eachLine, v.elementInitializerInjectedAnnotations();
__.ln();
__.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    ___.dl();__.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  ___.dl();
}
__.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();__.out("@Deprecated");
  }
  ___.dl();
}
__.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  ___.dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    ___.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      ___.dl();__.out("private ");
    }
    ___.dl();
  } else {
    ___.dl();$(___.a_builderInitAccess_991723715.getInitializerAccess());
  }
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
}

$___.out(" ");
$(__, v.names.put());$_.out("(");
{final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
    __.dl();
    if ($if($(not, a_atElementNullable_1621680092.nullElements.ban()))) {
        __.dl();$(__, atNullable, a_atElementNullable_1621680092);
    }
    __.dl();
}
$___.out(" key,");
{final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
    __.dl();
    if ($if($not, a_atElementNullable_1621680092.nullElements.ban()))) {
        __.dl();$(__, atNullable, a_atElementNullable_1621680092);
    }
    __.dl();
}$(__, uK);
$___.out(" (").ln();
$___.out(" ");
$___.dl();
if ($if(v.isNullableCollector())) {
    __.dl();___.ln();
    __.out(" if (this.");
    $(__, v.name());
    __.out(" == null) (").ln();
    __.out(" ");
} __dl();__ln();
__out("    ");

} else {
__dl();__ln();
__out("    this.");
$___.v.name());
__out(".put(key, value);").ln();
__out("    ");

} __dl();__ln();
__out("    ");
$___.nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("( ");
$___.type_builderReturnThis_1267082624.typeBuilder());
__out(" )");

} __dl();__out("this");

__out(";").ln();
__out("  ").ln();
__ln();
__out("  */**").ln();
__out("  * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

} __out("  map. Nulls are not permitted").ln();
__out("  * @param entry The key and value entry").ln();
__out("  * @return [ @code this ] builder for use in a chained invocation").ln();
__out("  */");.ln();
__out("  ");
$___.eachLine, v.elementInitializerInjectedAnnotations());
__ln();
__out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
}
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    ___.dl();___.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
        ___.dl();___.out("private ");
    } else {
        ___.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
    }
}
___.dl();
} else {
    ___.dl();$__($__, a_builderInitAccess_991723715.getInitializerAccess());
}
___.dl();
}
___.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    ___.dl();$__($__, type_builderReturnType_1031721330.typeBuilder());
} else {
    ___.dl();$__($__, type_builderReturnType_1031721330.typeBuilder().simple());
$($__, type_builderReturnType_1031721330.generics().args());
}
___.dl();
```java
if (Sif(v.isNullableCollector())) {
    __dl();__ln();
    __out("    if (this.");
    __out(" == null) {"),ln();
    __out("    ");
    __ln();
    __out("      ");,ln();
    __out("    ");
}
__dl();__ln();
__out("    ");
__dl();
if (Sif(v.isGenerateJdkOnly())) {
    __dl();__ln();
    __out("      ");
    __out("    ");
    __out("    ");
    __out("    ");
}
if (Sif(v.nullElements.allow())) {
    __dl();__ln();
    __out("      this.");
    __out("      ");
    __out("      ");
    __out("      ");
} else if (Sif(v.nullElements.skip())) {
    __dl();__ln();
    __out("      if (k != null && v != null) this.");
    __out("      ");
    __out("      ");
    __out("      ");
```
```java
if ($if($not, type.isUseStrictBuilder())) {
    __.dl();___.ln();
    ___.ln();
    __.out(" /**").ln();
    __.out(" * Sets or replaces all mappings from the specified map as entries for the ");
    [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    ]
    __.out(" map. Nulls are not permitted");
    __.dl();
    if ($if(v.isNullable())) {
        __.dl();__.out(" as keys or values, but parameter itself can be null");
    }
    __.dl();___.ln();
    __.out(" * @param entries The entries that will be added to the ");
    $(__, v.name());
    __.out(" map").ln();
    __.out(" * @return {@code this} builder for use in a chained invocation").ln();
    __.out(" */").ln();
    __.out(" ");
    $(__, eachLine, v.initializerInjectedAnnotations());
    __.ln();
    __.out(" ");
    [final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
     $cast(type);
     __.dl();
     if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
     "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
         __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
     }
     __.dl();
    }
    __.ln();
    __.out(" ");
    $(__, eachLine, v.getBuilderAttributeAnnotation());
    __.ln();
    __.out(" ");
    [final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
     __.dl();
     if ($if(a_deprecation_286924011.deprecated)) {
         __.dl();__.out("@Deprecated");
     }
     __.dl();
```
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
   __dl();
   if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
   a_builderInitAccess_991723715.isBuilderSwitcher()))) {
      __dl();__dl();
      if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
         __dl();__out("private ");
      }
      __dl();
   } else {
      __dl();$__ a_builderInitAccess_991723715.getIntializerAccess();
      __dl();
   }
   __out("final ");
   final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
   __dl();
   if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
      __dl();$__ type_builderReturnType_1031721330.typeBuilder();
   } else {
      __dl();$__ type_builderReturnType_1031721330.typeBuilder().simple();
      $__ type_builderReturnType_1031721330.generics().args();
   }
   __dl();
   __out(" ");
   $__ v.names.init;
   __out("(");
   $__ v.atNullability();
   __dl();
   if ($if(v.isMultimapType())) {
      __dl();$__ guava;
      __out(".collect.Multimap");
   } else {
      __dl();__out("java.util.Map");
   }
   __dl();__out("<");
   $__ gE);
```java
  /**
   * Put all mappings from the specified map as entries to map. Nulls are not permitted
   * @param entries The entries that will be added to the map
   * @return {@code this} builder for use in a chained invocation
   */
  
  %
  
  {final org.immutables.value.processor.meta.ValueAttribute $a_sourceDocRef_1518656892 = $cast(v);
   $(_.sourceDocLink, $a_sourceDocRef_1518656892, $a_sourceDocRef_1518656892.names.raw);

   _out("  map. Nulls are not permitted").ln();
   _out("  * @param entries The entries that will be added to the ");
   $(_.v.name());
   _out(" map").ln();
   _out("  * @return { @code this } builder for use in a chained invocation").ln();
   _out("  */").ln();
   _out(" ");
   $(_.eachLine, v.initializerInjectedAnnotations());
   _ln();
   _out("  ");
   {final org.immutables.value.processor.meta.HasStyleInfo $s_atCanIgnoreReturnValue_1431153190 = $cast(type);
    _dl();
    if ($is($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
     "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
     _dl(); _out(" @com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }
    _dl();
   }
   _ln();
   _out(" ");
   {final org.immutables.value.processor.meta.ValueAttribute $a_deprecation_286924011 = $cast(v);
    _dl();
    if ($is($a_deprecation_286924011.deprecated)) {
     _dl(); _out(" @Deprecation ");
    }
    _dl();
   }
   _ln();
   _out(" ");
```

{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($is($a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
__dl();__dl();
if ($is($a_builderInitAccess_991723715.containingType.kind().isFactory())) {
__dl();__out("private ");
}
__dl();
} else {
__dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($is($type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
__dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
__dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");$(__, v.names.putAll());
__out("(");
__dl();
if ($is(v.isMultimapType())) {
__dl();$(__, guava);__out(".collect.Multimap");
} else {
__dl();__out("java.util.Map");
}
__dl();__out("<");$(__, gE);__out("?, ? extends ");$(__, wV);__out("> entries\") {"}.ln();__out(" ");__dl();
if ($if(v.isNullableCollector())) {  
  __.dl();__.ln();  
  __.out(" if (this.");  
  $(__, v.name());  
  __.out(" == null) {").ln();  
  __.out(" ");  
  $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);  
  __.ln();  
  __.out(" ");ln();  
  __.out(" ");ln();  
  __.dl();  
  if ($if(v.isGenerateJdkOnly())) {  
    __.dl();__.ln();  
    __.out(" for (java.util.Map.Entry<");  
    $(__, gE);  
    __.out(" , ? extends ");  
    $(__, wV);  
    __.out(" e : entries.entrySet()) {").ln();  
    __.out(" ");ln();  
    $(__, wK);  
    __.out(" k = e.getKey();").ln();  
    __.out(" ");ln();  
    $(__, wV);  
    __.out(" v = e.getValue();").ln();  
    __.out(" ");ln();  
    __.dl();  
  } else if ($if(v.nullElements.allow())) {  
    __.dl();__.ln();  
    __.out(" this.");  
    $(__, v.name());  
    __.out(".put(k, v);").ln();  
    __.out(" ");  
  } else if ($if(v.nullElements.skip())) {  
    __.dl();__.ln();  
    __.out(" if (k != null && v != null) this.");  
    $(__, v.name());  
    __.out(".put(k, v);").ln();  
    __.out(" ");  
  } else {  
    __.dl();__.ln();  
    __.out(" this.");  
    $(__, v.name());  
    __.out(".put(").ln();  
  }
}
__out("    ");
$(__, requireNonNull, type);
__out("(k, \"\")
$(__, v.name());
__out(" key\"),\ln();
__out("    ");
$(__, requireNonNull, type);
__out("(v, \"\")
$(__, v.name());
__out(" value\")\ln();
__out("    ");

}
__dl();__ln();
__out("    ");\ln();
__out("    ");

} else {
__dl();__ln();
__out("    this.");
$(__, v.name());
__out(".putAll(entries);");\ln();
__out("    ");

}
__dl();__ln();
__out("    ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$(__, type_builderReturnThis_1267082624.typeBuilder());
__out(" ) ");

}
__dl();__out("this");

}
__out(";").\ln();
__out("    ");\ln();
__out("    ");
__dl();__it3.index++;__it3.first = false;
}
__dl();__ln();
\_\_out(" ");
} else if ($if(v.isArrayType())) {
  \_\_dl();\_\_ln();
  \_\_ln();
  \_\_out(" /**").ln();
  \_\_out(" * Initializes the value for the ");
\{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = \$cast(v);
  $(\_, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
\}
  \_\_out(" attribute.").ln();
  \_\_out(" ");
  \_\_dl();
if ($if(v.isGenerateDefault)) {
  \_\_dl();\_\_ln();
  \_\_out(" * <p><em>If not set, this attribute will have a default value as defined by ");
\{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = \$cast(v);
  $(\_, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
\}
  \_\_out(" .</em>").ln();
  \_\_out(" ");

\} \_\_dl();\_\_ln();
  \_\_out(" * @param ");
  $(\_, v.name());
  \_\_out(" The elements for ");
  $(\_, v.name());
  \_\_ln();
  \_\_out(" * @return [ @code this ] builder for use in a chained invocation").ln();
  \_\_out(" */").ln();
  \_\_out(" ");
  $(\_, eachLine, v.initializerInjectedAnnotations());
  \_\_ln();
  \_\_out(" ");
\{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = \$cast(type);
  \_\_dl();
  if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
  "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    \_\_dl();\_\_out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  \_\_dl();
}
  \_\_ln();
  \_\_out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
  __dl();
  if (Sif$(a_varargsSafety_1368213209.isNonRawElementType(), or,
      a_varargsSafety_1368213209.hasTypeVariables())) {
    __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
  }
  __dl();
}__ln();
__out(" ");
$___. eachLine, v.getBuilderAttributeAnnotation();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if (Sif(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
  }
  __dl();
}__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  __dl();
  if (Sif$(a_builderInitAccess_991723715.isBuilderParameter, or,
      a_builderInitAccess_991723715.isBuilderSwitcher())) {
    __dl();__dl();
    if (Sif$(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      __dl();__out("private ");
    }
  } else {
    __dl();$___. a_builderInitAccess_991723715.getInitializerAccess();
  }
  __dl();
}__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  __dl();
  if (Sif$(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$___. type_builderReturnType_1031721330.typeBuilder();
  } else {
    __dl();$___. type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());

}___.dl();
}
___.out(" ");
$___.v.names.init;
___.out("(");
$___.v.getElementType();
___.out(" ... ");
$___.v.name();
___.out(" ").ln();
___.out(" ");
$___.checkNotIsSet, v);
___.ln();
___.out(" this.");
$___.v.name();
___.out(" = ");
$___.valueFromValue, v, v.name());
___.out(";").ln();
___.out(" ");
$___.mandatorySetInBuilder, v);
___.ln();
___.out(" ");
$___.nondefaultSetInBuilder, v);
___.ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    ___.dl();___.out("(");
$(___.type_builderReturnThis_1267082624.typeBuilder());
   ___.out(" ");

}___.dl();___.out("this");

}___.out(");.ln();
___.out(" ");.ln();
___.out(" ");
}
else {
    ___.dl();___.ln();
    ___.out(" ");
    ___.dl();
    if ($if(v.getConstructorParameters())) {
        ___.dl();___.ln();

```java
__.ln();
__.out("/**").ln();
__.out("  * Constructs and initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__.out("  * Constructs and initializes the value for the ");
__.out("  ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute c : Sin(v.getConstructorParameters())) {
    __.dl();__.ln();
    __.out("  * @param ");
    $(__, c.name());
    __.out(" The value for { @code ");
    $(__, v.name());
    __.out(" } ");
    $(__, c.name());
    __.out(" } ");
    __.dl();
    if ($if(c.isNullable())) {
      __.dl();__.out("(can be { @code null})");
    }
  }
  __.dl();__.ln();
  __.out("  ");
  __.dl();_it3.index++;
  _it3.first = false;
}
___.ln();
__.out("  * @return { @code this} builder for use in a chained invocation").ln();
__.out("  */").ln();
$.ln();
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __.dl();
  if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue").ln())) {
    __.dl();__.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __.dl();
}
__.ln();
```

---

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Open Source Used in kASA v1.1 2034

```java
__dl();__out(" ");
}
__dl();${__, c.notNull()};
${__, c.getType()};
__out(" ");
${__, c.name()};
__dl();__it3.index++;__it3.first = false;
})
__dl();__out(" ").ln();
__out("  return ");
${__, v.names.init};
__out("()");
${__, v.attributeValueType.factoryOf()};
__out("()");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
  __dl();__dl();
  if ($if($(not, _it3.first))) {
    __dl();__out(" ");
  }
  __dl();${__, c.name()};
  __dl();__it3.index++;__it3.first = false;
}
__dl();__out(" ").ln();
__out("  ").ln();
__out(" ");
}
__dl();__ln();
__ln();
__out(" /**").ln();
__out("  * Initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
${__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw});
}
__out("  attribute.").ln();
__out("  ");
__dl();
if ($if(v.isGenerateDefault)) {
  __dl();__ln();
  __out("  * &lt;p&gt;&lt;em&gt;If not set, this attribute will have a default value as returned by the initializer of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
```
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

}___.out("</em>").ln();
___.out(" ");

}___.dl();___.ln();
___.out(" * @param ");
$___.v.name());
___.out(" The value for ");
$___.v.name());
___.out(" ");
___.dl();
if ($if(v.isNullable)) {
___.dl();___.out("(can be {@code null})");
}

}___.dl();___.ln();
___.out(" * @return { @code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
$___.eachLine, v.initializerInjectedAnnotations());
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
___.dl();
if ($if($($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();
}
___.ln();
___.out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation());
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a.deprecation_286924011.deprecated)) {
___.dl();___.out("@Deprecated");
}
___.dl();
}
__dl();
} else {
  __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
  n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
  $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(" ");
$(__, v.names.getBuilder());
__out("() {".ln();
__out("  if (this.");
$(__, v.name());
__out(" == null) {");ln();
__out("    this.");
$(__, v.name());
__out(" = ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
  = $cast(v.getAttributeBuilderDescriptor());
  $(__, n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
  __out("();
}
__out(";".ln();
__out("  }").ln();
__out("  ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out("  ");
$(__, mandatorySetInBuilder, v);
__ln();
__ln();
__out("    return this.");
$(__, v.name());
__out(";".ln();
__out("    ").ln();
__ln();
__out("    // **");.ln();
__out("    * Sets ");
}
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```java
  to the provided builder.
  *
  *
  final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  
  final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  
  if ($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    @com.google.errorprone.annotations.CanIgnoreReturnValue
  }
  
  if ($(a_deprecation_286924011, deprecated)) {
    @Deprecated
  }
  
  if ($(a_builderInitAccess_991723715, isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher())) {
    private
  } else {
    $(__, a_builderInitAccess_991723715.getIntializerAccess());
  }
  
  final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  
  if ($(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    ...
  }
```

else {
  __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(__, type_builderReturnType_1031721330.generics().args());
}

___.dl();
}
___.out(" ");
$(__, v.names.setBuilder());
___.out("(");
$(__, v.atNullability());
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
___.out(" ");
$(__, v.name());
___.out(" ");
$(__, checkNotIsSet, v);
___.ln();
___.out(" this.");
$(__, v.name());
___.out(" = ");
$(__, v.name());
___.out(".");
$(__, nondefaultSetInBuilder, v);
___.ln();
___.out(" ");
$(__, mandatorySetInBuilder, v);
___.ln();
___.out(" return ");

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  ___.dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
    ___.dl();___.out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    ___.out(" ");
  }
  ___.dl();___.out("this");
}

___.out(";");
___.out(" ");
___.out(" ");
___.ln();
if ($if(type.isGenerateClearBuilder())) {
__dl();__ln();
__ln();
__out(" /**").ln();
__out(" * Clear the builder to the initial state.").ln();
__out(" * @return [@code this] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
} final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" public ");
} final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330, getInnerBuilder().isExtending)) {
__dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
$(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
__dl();
}
__out(" ");
$(__, type.names().clear());
__out("() {} ").ln();
__out(" ");
} final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
$.dl(); $.ln();
$.out("    ");
$(_, disambiguateField, type, "initBits");
$(_, emptyIfZero, l.index);
$.out(" = ");
$(_, literal.hex, l.occupation);
$.out(";").ln();
$.out("    ");
$.dl(); $.ln();
i2.index++;
i2.first = false;
}
$.dl(); $.ln();
$.out("   ");
{final org.immutables.generator.Templates.Iteration i2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(nondefaultsPositions.longs())) {
$.dl(); $.ln();
$.out("    ");
$(_, disambiguateField, type, "optBits");
$(_, emptyIfZero, l.index);
$.out(" = 0;").ln();
$.out("    ");
$.dl(); i2.index++;
i2.first = false;
}
$.dl(); $.ln();
$.out("   ");
{final org.immutables.generator.Templates.Iteration i2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
$.dl();
$.out("    ");
$.dl();
if ($if($(v.isContainerType(), and, $(v.isGenerateJdkOnly(), and, $(v.isNullableCollector(), andnot, v.isNullable()))) {
$.dl(); $.dl(); $.ln();
$.out("    if (");
$(_, v.name());
$.out(" !\s+null \})\s+.ln();
$.out("    ");
$(_, v.name());
$.out("\s+.clear();\})\s+.ln();
$.out("   ");
$.ln();
$.dl();

} else {
$.dl(); $.ln();
$.out("    ");
$(_, defineOrResetBuildingFieldAlt, v, $false, v.isNullableCollector());
$.ln();
if ($if(type.kind().isFactory()) { 
__dl();__ln();
__out(" * Invokes { @code ");
$(__, type.factoryOf());
__out("(...) using the collected parameters and returns the result of the invocation").ln();
__out(" * @return A result of type { @code ");
$(__, type.typeValue());
__out("}"").ln();
__out(" ");
} else {
__dl();__ln();
__out(" * Builds a new { @link ");
$(__, type.typeValue().relativeRaw());
__out(" ");
$(__, type.typeValue().simple());
__out(" ").ln();
__out(" * @return An immutable instance of ");
```java
$__().ln();
$__().out("  ");
__().dl();__().ln();
$__().out("   * @throws ");
$__().type.getThrowForInvalidImmutableState();
$__().out(" if any required attributes are missing").ln();
$__().out("   */").ln();
final org.immutables.generator.Templates.Invokable returnType = new
org.immutables.generator.Templates.Invokable();

@Override public void run(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.generator.Templates.Invokable returnType = this;
  if ($if(type.constitution.isSimple())) {
    $__().type.typeValue().simple();
    $__().type.generics().args();
  } else {
    $__().type.typeValue();
  }
}

if ($if(type.throwing)) {
  $__().out(" public ");
  $__().out(" throws ");
  final org.immutables.generator.Templates.Iteration _it2 = new
  org.immutables.generator.Templates.Iteration();
  for (final java.lang.String t : $in(type.throwing)) {
    if ($if($(not, _it2.first))) {
      $__().out(", ");
      _it2.index++;
      _it2.first = false;
    }
  }
  $__().out(" ");
}
```
public __type() {
    __dl();
    __ln();
}

if ($if(positions.longs())) {
    __dl();
    __out("    if (\n    __dl();
    if ($if($(not, _it2.first))) {
        __dl();
        __out("        ||
        __dl();
        __out("            __disambiguateField, type, "initBits");
        __dl();
        __out("                != 0");
        __dl();
        __out("                    .index++;
        it2.first = false;
    })
    __dl();
    __out("    ) {\n        throw new java.lang.IllegalStateException(formatRequiredAttributesMessage());\n    }.ln();
    __out("    }");
}

if ($if(type.isUseCompactBuilder())) {
    __dl();
    __out("    if (\n    __dl();
    if (final org.immutables.value.processor.meta.LongBits.LongSet1 $in(positions.longs())) {
        __dl();
        __out("        \n        __dt();
        __out("            final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();\n        for (final org.immutables.value.processor.meta.LongBits.LongSet l $in(positions.longs())) {
            __dl();
            __out("                if (\n            __dl();
            if ($if($not(_it2.first))) {
                __dl();
                __out("                    .index++;
                _it2.first = false;
            })
            __dl();
            __out("        ) {\n                throw new java.lang.IllegalStateException(formatRequiredAttributesMessage());\n            }.ln();
            __out("        }");
        }
    __dl();
    __ln();
} else {
    __dl();
    __ln();
    __out("    checkRequiredAttributes();\n    __out("    ");
}

    __dl();
    __ln();
if ($if(type.isGenerateCanBuild())) {
    __dl();__ln();
    __out(" /*");
    $(__, builderReturnValue, type);
    __ln();
    __out(" }" ).ln();
    __out(" ");
    __dl();
}
if ($if(type.isGenerateCanBuild())) {
    __dl();__ln();
    __out(" /**");
    __out(" * If all required attributes are set and calling {@link #
    $(__, type.names().build);
    __out("()" ).ln();
    __out(" * will return an instance and will not throw {@code
    $(__, type.names().canBuild());
    __out("() { " ).ln();
    __out(" ");
    __dl();
}
    {final org.immutables.generator.Templates.Iteration _it2 =
    $in(positions.longs())) {
        __dl();__ln();
        __out(" return ");
        if ($if(positions.longs())) {
            __dl();__ln();
            __out(" return ");
        } else {
            __dl();__ln();
            __out(" return true");
        }
    } else {
        __dl();__ln();
        __out(" return true");
    }
}
if ($if(type.isGenerateBuildOrThrow())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if($(classpath.isJava8(), ornot, type.isGenerateJdkOnly()))) {
    __dl();__ln();
    __ln();
    __out(" /**").ln();
    __out(" ");
    __dl();
    if ($if(type.kind().isFactory())) {
      __dl();__ln();
      __out(" * Invokes {@code ");
      $(__, type.factoryOf());
      __out("(...) using the collected parameters and returns the result of the invocation").ln();
      __out(" * @param <BOT> exception type").ln();
      __out(" * @param exceptionSupplier used to create new exception from supplied error message").ln();
      __out(" * @return A result of type {@code ");
      $(__, type.typeValue());
      __out(" }).ln();
      __out(" ");
    } else {
      __dl();__ln();
      __out(" * Builds a new {link ");
      $(__, type.typeValue().relativeRaw());
      __out(" ");
      $(__, type.typeValue().simple());
      __out(".").ln();
      __out(" * @param <BOT> exception type").ln();
      __out(" * @param exceptionSupplier used to create new exception from supplied error message").ln();
      __out(" * @return An immutable instance of ");
      $(__, type.name());
      __ln();
      __out(" ");
    }
  }
}
```java
  };
  };
  dl();
  ln();
  out("  ");
}
  dl();
  ln();
  out("  ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(nondefaults)) {
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($in(nondefaultsPositions, p));
  dl();
  ln();
  out("  ");
  __out(" private boolean ");
$(__, p.names.isSet());
  out("() ");
  out("  ");
  out(" return ");
$(__, disambiguateField, type, "optBits");
$(__, emptyIfZero, pos.index);
  out(" & OPT_BIT_");
$(__, toConstant, p.name());
  out(" != 0");
  out("  ");
  dl();
  _it2.index++;
_it2.first = false;
}
  dl();
  ln();
  dl();
if ($if($not, type.isUseCompactBuilder())) {
  dl();
  ln();
  out("  ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($in(positions, m));
  dl();
  ln();
  out(" private boolean ");
$(__, m.names.isSet());
  out("() ");
  out("  ");
  out(" return ");
$(__, disambiguateField, type, "initBits");
$(__, emptyIfZero, pos.index);
  out(" & INIT_BIT_");
$(__, toConstant, m.name());
  out(" == 0");
```
if ($(type.isUseStrictBuilder(), and, $(nondefaultsPositions.longs(), or, positions.longs())))) {
__dl();__ln();
__out("  ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out("  ");
__dl();
if ($(if($(type.isUseStrictBuilder(), and, $(nondefaultsPositions.longs(), or, positions.longs()))))) {
__dl();__ln();
__ln();
__out("  private static void checkNotIsSet(boolean isSet, String name) {").ln();
__out("    if (isSet) throw new java.lang.IllegalArgumentException("Builder of ");
fwrite($(__, type.name()));
__out("  is strict, attribute is already set: ");
fwrite($(".concat(name)");"").ln();
__out("  }").ln();
__out("  ");
}
__dl();__ln();
__out("  ");
__dl();
if ($(if(positions.longs()))) {
__dl();__ln();
__ln();
__out("  private void checkRequiredAttributes() {").ln();
__out("  ");
fwrite($(__, checkRequiredOrThrow, type, positions, $$false));
__ln();
__out("  }").ln();
__out("  ");
__dl();
if ($(if(type.isGenerateBuildOrThrow()))) {
__dl();__ln();
__out("  ");
__dl();
if ($(if($(classpath.isJava8(), ornot, type.isGenerateJdkOnly())))) {
__dl();__ln();
__ln();
__out("  private <T extends Exception> void checkRequiredAttributesOrThrow(";
__dl();
if ($(if(classpath.isJava8()))) {
__dl();__out("java.util.function.Function");
} else {
__dl();fwrite($(__, guava));
__out(".base.Function");
}
if ($if(positions.longs())) {
    __dl();__ln();
    __out(" ");
    __dl();__ln();
    __out(" ");
}

__dl();__ln();
__out(" ");

if ($if(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(positions.longs())) {
        __dl();__ln();
        __out(" ");
        __dl();
        if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
            __dl();__ln();
            __out(" @com.google.errorprone.annotations.Var ");
        }
    }
}

{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
	__dl();
	if ($if(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var")) {
		__dl();__out("@com.google.errorprone.annotations.Var ");

}
```java
if ($if(type.isUseCompactBuilder())) {
    if (!$m.names.isSet()) attributes[
        $m.names.raw];
    } else {
        if (!$m.names.isSet()) attributes[
            $m.names.raw];
    }
```
if ($if($(type.isGenerateBuildOrThrow(), ornot,
  type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor))) {
  __dl(); __ln();
  __ln();
  __out("private String formatRequiredAttributesMessage() {").ln();
  __out("  java.util.List<String> attributes = new java.util.ArrayList<");
  __out("$(__, asDiamond, "String")");
  __out("();").ln();
  __out("  ");
  __dl();
  if ($if(type.isUseCompactBuilder())) {
    __dl(); __ln();
    __ln();
    __out("    (\n");
    final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
      final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($positions, m));
      __dl(); __ln();
      __out("      if (\n");
      $(__, disambiguateField, type, "initBits");
      __out("\n");
      __out("    & INIT\_BIT_\n");
      $(__, toConstant, m.name());
      __out("\n");
      __out("  !\n");
      __out("  .add(\n");
      __out("\n");
      __dl(); __ln();
      _it2.index++;
      _it2.first = false;
    }}
  }
  __out("  ");
  __dl(); __ln();
  __out("    return java.util.Arrays.copyOf(attributes, c);\n");
  __out("  ");
  __dl();
_it1.first = false;
}
__dl();__ln();
__dl();

org.immutables.generator.Templates.Invokable builderReturnValue() { return builderReturnValue; }
private final org.immutables.generator.Templates.Invokable builderReturnValue = new FragmentDispatch(1, 19);
void _t19__builderReturnValue(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__dl();
if ($if(type.kind().isFactory())) {
__dl();__ln();
$___.returnFactoryBuild, type);
__ln();
} else if ($if($type.isUseSingleton(), andnot, type.getSettableAttributes())) {
__dl();__ln();
__out("return ");
$___.factoryInstance().relative());
__out("();").ln();
} else if ($if(type.isGenerateBuilderUseCopyConstructor())) {
__dl();__ln();
$___.generateReturnBuilderConstructed, type);
__ln();
}

} else {
__dl();__ln();
__out("return ");

{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($$true);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
__out("new ");
$___.typeImmutable().relative());
__out("(this");
__dl();
});__dl();__dl();

if ($if(type_validated_1881291508.isUseValidation())) {
__dl();__dl();

if ($if(qualified_validated_1881291508)) {
__dl();$___.type_validated_1881291508.typeImmutable().relativeRaw());
__out(".");
}
__dl();__out("validate("):

}
open source used in kasa v1.1 2058

private final org.immutables.generator.Templates.Invokable checkRequiredOrThrow = new FragmentDispatch(3, 20);

void _t20__checkRequiredOrThrow(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast(__.param(1));
  final java.lang.Boolean useSupplier = $if(__.param(2));
  if ($if(useSupplier)) {
    throw exceptionSupplier.apply(formatRequiredAttributesMessage());
  } else if ($if(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
    throw new
  } else {
    __dl();$(__.expression_validated_1881291508);
    __dl();$(__.expression_validated_1881291508);
    __dl();$(__.expression_validated_1881291508);
    __dl();
    __out(";").ln();
    __dl();
    __ln();
  }
}

org.immutables.generator.Templates.Invokable checkRequiredOrThrow() { return checkRequiredOrThrow; }

{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
    if ($if(!_it1.first)) {
      if ($if(l.index != 0)) {
        __dl();
        __out(" |");
        __dl();
        __out(" ");
      }
    }
    __dl();$(__.disambiguateField, type, "initBits");
    __out(" != 0");
    __dl();
    _it1.index++;
    _it1.first = false;
  }
  __dl();
  __out(" ");
  __dl();
  if ($if(useSupplier)) {
    __dl();
    __out(" throw exceptionSupplier.apply(formatRequiredAttributesMessage());");
  } else if ($if(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
    __dl();
    __out(" throw new ");
  }
}
function formatRequiredAttributesMessage() { }

buildFromAttributeNullableSupertype = new FragmentDispatch(1, 21);

if (v.isEncoding()) {
    // Encoding
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.names.get();
    v.name();
    v.name();
    vv.builderCopyFrom();
    v.name();
    vv.name();
    vv.name();
    } else if (v.isCollectionType()) {
    // Collection
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.name();
    v.name();
    v.name();
    }
    } else { 

    throw new 
    (formatRequiredAttributesMessage());
    }

    buildFromAttributeNullableSupertype();

buildFromAttributeNullableSupertype = new FragmentDispatch(1, 21);

if (v.isEncoding()) {
    // Encoding
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.names.get();
    v.name();
    vv.builderCopyFrom();
    v.name();
    vv.name();
    vv.name();
    } else if (v.isCollectionType()) {
    // Collection
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.name();
    v.name();
    v.name();
    }
    } else { 

    throw new 
    (formatRequiredAttributesMessage());
    }

    buildFromAttributeNullableSupertype();

buildFromAttributeNullableSupertype = new FragmentDispatch(1, 21);

if (v.isEncoding()) {
    // Encoding
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.names.get();
    v.name();
    vv.builderCopyFrom();
    v.name();
    vv.name();
    vv.name();
    } else if (v.isCollectionType()) {
    // Collection
    v.atNullableInSupertypeLocal();
    v.getType();
    v.name();
    v.name();
    v.name();
    v.name();
    }
    } else { 

    throw new 
    (formatRequiredAttributesMessage());
    }
$(__, v.name());
_._.out("Value = instance.");
$__ v.names.get);
___.out("()").ln();
___.out("if ()");
$__ v.name());
___.out("Value != null) ").ln();
___.out(" ");
$__ v.names.addAll());
___.out("()");
$__ v.name());
___.out("Value;").ln();
___.out(""].ln();
} else if (Sif(v.isMapType())) {
  __.dl();___.ln();
$__ v.atNullableInSupertypeLocal());
$__ v.getType());
___.out(" ");
$__ v.name());
___.out("Value = instance.");
$__ v.names.get);
___.out("()").ln();
___.out("if ()");
$__ v.name());
___.out("Value != null) ").ln();
___.out(" ");
$__ v.names.putAll());
___.out("()");
$__ v.name());
___.out("Value;").ln();
___.out(""].ln();
} else if (Sif(v.isOptionalType())) {
  __.dl();___.ln();
$__ v.atNullableInSupertypeLocal());
$__ v.getType());
___.out(" ");
$__ v.name());
___.out("Value = instance.");
$__ v.names.get);
___.out("()").ln();
___.out("if ()");
$__ v.name());
___.out("Value != null && ");
$__ v.name());
___.out("Value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
___.dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()) {  
  __dl(); __out("isDefined");

  } else {  
  __dl(); __out("isPresent");

  }
  __dl(); __out("()");

}
__out("} ").ln();  
__out(" ");  
$___.v.names.init();  
__out("(" );  
$___.v.name();  
__out("Value;").ln();  
__out("]").ln();
}

if (__) {
  __dl(); __ln();  
$___.v.atNullableInSupertypeLocal();  
$___.v.getType();  
__out(" ");  
$___.v.name();  
__out("Value = instance.");  
$___.v.names.get();  
__out("()");ln();  
__out("if ( ");  
$___.v.name();  
__out("Value != null) ");ln();  
__out(" ");  
$___.v.names.init();  
__out("(");  
$___.v.name();  
__out("Value;").ln();  
__out("]").ln();
}
__out(" ");

}
__dl(); __ln();  
__dl();
};  

org.immutables.generator.Templates.Invokable buildFromAttribute() { return buildFromAttribute; }
private final org.immutables.generator.Templates.Invokable buildFromAttribute = new FragmentDispatch(1, 22);  
void _t22__buildFromAttribute(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = __cast(___.param(0));  
  __ln();  
  __out(" ");
if ($if(v.isEncoding())) {
    __dl();__ln();
    $(__, rr.builderCopyFrom(), v);
    __out("(instance.");
    $(__, v.names.get);
    __out("());").ln();
    __out(" ");
} else if ($if(v.isCollectionType())) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(v.isNullable())) {
        __dl();__ln();
        $(__, v.atNullabilityLocal());
        $(__, v.getType());
        __out(" ");
        $(__, v.name());
        __out("Value = instance.");
        $(__, v.names.get);
        __out("();").ln();
        __out(" ");
        $(__, v.name());
        __out("if (";
        $(__, v.name());
        __out("Value != null ) ").ln();
        __out(" ");
        $(__, v.names.addAll());
        __out("());
        $(__, v.name());
        __out("Value:");
        __out(" ");
        __dl();__ln();
        __out(" ");
    } else {
        __dl();__ln();
        $(__, v.names.addAll());
        __out("(instance.");
        $(__, v.names.get);
        __out("());").ln();
        __out(" ");
    }
    __dl();__ln();
    __out(" ");
} else if ($if(v.isMapType())) {
    __dl();__ln();
    $(__, v.names.addAll());
    __out("(instance.");
    $(__, v.names.get);
    __out("());").ln();
    __out(" ");
}

else if ($if(v.isNullType())) {
    __dl();
} else if ($if(v.isMapType())) {
    __dl();
    __out(" ");
} else if ($if(v.isNullType())) {
    __dl();
Open Source Used In kASA v1.1 2063

```java
__dl();__ln();
$(__, v.atNullabilityLocal());
$(__, v.getType());
__out(" ");
$(__, v.name());
__out("Value = instance.");
$(__, v.names.get);
__out(";").ln();
__out("if ( ");
$(__, v.name());
__out("Value != null) ");ln();
__out(" ");
$(__, v.names.putAll());
__out("(");
$(__, v.name());
__out("Value;").ln();
__out(" ");
}
else {
    __dl();__ln();
    $(__, v.names.putAll());
    __out("(instance.");
    $(__, v.names.get);
    __out("(); ").ln();
    __out(" ");
}

} else if ($if(v.isOptionalType())) {
    __dl();__ln();
    $(__, v.getType());
    __out(" ");
    $(__, v.name());
    __out("Optional = instance.");
    $(__, v.names.get);
    __out("(); ").ln();
    __out("if ( ");
    $(__, v.name());
    __out("Optional.");
    {final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
        __dl();
        if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
            a_optionalPresent_767352996.isJavaslangOptional())) {
            __dl();__out("isDefined");
        }
```
```java
.org.immutables.generator.Templates.Invokable returnFactoryBuild() { return returnFactoryBuild; }
```
private final org.immutables.generator.Templates.Invokable returnFactoryBuild = new FragmentDispatch(1, 23);
void _t23__returnFactoryBuild(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.out("return ");
    $(__, type.factoryOf());
    __.out("(");
    $(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();{final org.immutables.generator.Templates.Iteration _it1 = new
                org.immutables.generator.Templates.Iteration();
                for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
                    __.dl();___.out(",").ln();
                    if ($if($(not, _it1.first))) {
                        __.dl();___.out("    ").ln();
                        ___.out("   ");
                    }
                    ___.dl();$(__, valueFromBuilder, v, "");
                    ___.dl();_it1.index++;
                    _it1.first = false;
                }
                __.dl();
            });
            __.out(")");
        }
    });
    __.dl();
}]

org.immutables.generator.Templates.Invokable valueFromSuper() { return valueFromSuper; }
private final org.immutables.generator.Templates.Invokable valueFromSuper = new FragmentDispatch(2, 24);
void _t24__valueFromSuper(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.String expression = __.param(1).toString();
    __.dl();
    if ($if(v.isGuavaImmutableDeclared())) {
        __.dl();
        if ($if($(not, v.isNullable()))) {
            __.dl();$(__, requireNonNull, v.containingType);
            __.out("(");
            $(__, expression);
            __.out("\"\")
            $(__, v.name());
            __.out("\")
        } else {
            __.dl();$(__, expression);
        }
    }
org.immutables.generator.Templates.Invokable maybeToBuilder() { return maybeToBuilder; }
private final org.immutables.generator.Templates.Invokable maybeToBuilder = new FragmentDispatch(2, 25);
void _t25__maybeToBuilder(org.immutables.generator.Templates.Invokation __) {

final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
final java.lang.String expression = __.param(1).toString();

if ($if(v.isAttributeBuilder())) {

final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Invokable(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {

final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
$(__, expression);

if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {

$(__, expression_valueToBuilder_1442539515);
$out(".");
$out(n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
$out("()");

} else {

$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
$out("(");
$out(expression_valueToBuilder_1442539515);
$out(""));

} __dl();
}

} __dl();
}

org.immutables.generator.Templates.Invokable valueToBuilder() { return valueToBuilder; }
private final org.immutables.generator.Templates.Invokable valueToBuilder = new FragmentDispatch(2, 26);
void _t26__valueToBuilder(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  __.dl();
  if ($if(n.isCopyMethodOnValueInstance())) {
    __.dl();$___.dl();
    __.dl();$(___.param(0));
    __.dl();$(___.param(1));
    __.dl();$(___.param(2));
  } else {
    $___.dl();
  }
}

org.immutables.generator.Templates.Invokable valueFrom() { return valueFrom; }
private final org.immutables.generator.Templates.Invokable valueFrom = new FragmentDispatch(4, 27);
void _t27__valueFrom(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  final java.lang.Boolean withoutOptional = $if(__.param(3));
  $(___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
      __.dl();___.ln();
      __.dl();
      if ($if(withoutOptional)) {
        __.dl();___.ln();
        __.dl();
        $(___.param(0));
        __.ln();
        __.out(" ");
      } else {
        __.dl();___.ln();
        __.dl();
        $(___.param(0));
        __.ln();
        __.out(" ");
      }
    }
  });
}
org.immutables.generator.Templates.Invokable valueFromValue() { return valueFromValue; }
private final org.immutables.generator.Templates.Invokable valueFromValue = new FragmentDispatch(2, 28);
void _t28__valueFromValue(org.immutables.generator.Templates.Invokation __) {
  $__dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  $(_, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      $__dl(); $(__, rr.from(), v, expression);
      $__ln();
    }
    });
  } else if ($if(v.isJdkOptional())) {
    $__dl(); $(__, expression);
    $__out(" .isPresent() ? ");
    $(_, output.trim, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        $__dl(); __.orElse(null);
      };
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          $__out(" .orElse(null)\n    }
        )
      }
    })
    } else if ($if(v.isOptionalType())) {
      $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          $__dl(); $(__, expression);
          __(output.trim, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              $__dl(); $(__, expression);
              lowercase $out(" .getAs\n    }
              )
            }
          })
          } else if ($if(v.isOptionalType())) {
            $__dl(); $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
              @Override public void run(org.immutables.generator.Templates.Invokation __) {
                $__dl(); $(__, expression);
                lowercase $out(" .orElse(null)\n    }
              )
            }
          }
        }
      }
  }
}

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$(__, v.getType());
__out(" ");

}__dl();$(__, maybeCopyOf, v, expression);__ln();
} else if ($if(v.isArrayType())) {
  __dl();__dl();__ln();
  __out(" ");
  __dl();
  if ($if(v.isNullable())) {
    __dl();$(__, expression);
  } else {
    __dl();$(__, expression);
    __out(" .clone() ");
  }
} else {
  __dl();$(__, expression);
  __out(" .clone() ");
}

}__dl();__ln();
} else if ($if(v.getAttributeValueKindCopy())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(v.isNullable())) {
    __dl();$(__, expression);
    __out(" == null ? null : ");
  }
  __dl();$(__, deepCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();$(__, expression);
    __dl();
  }));
  __ln();
} else if ($if(v.isCollectionType(), or, v.isMapType())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(v.isNullable())) {
    __dl();$(__, expression);
    __out(" == null ? null : ");
  }
  __dl();$(__, immutableCollectionCopyOf, v, expression);
  __ln();
} else {
  __dl();__ln();
Open Source Used In kASA v1.1 2070

```java
$___.out(" ");
$___.maybeCopyOf(v, new org.immutables.generator.Templates.Fragment(0) {
  ___.dl();$___.maybeNonNullValue(v, new org.immutables.generator.Templates.Fragment(0) {
    ___.dl();$___.expression;
    ___.dl();
  });
  ___.dl();
});
$___.ln();
$___.dl();
$___.ln();
$___.dl();
}
$___.ln();
$___.dl();

org.immutables.generator.Templates.Invokable valueFromValueNoOptional() { return valueFromValueNoOptional; }
private final org.immutables.generator.Templates.Invokable valueFromValueNoOptional = new FragmentDispatch(3, 29);
void _t29__valueFromValueNoOptional(org.immutables.generator.Templates.Invokation __) {
  ___.dl();final org.immutables.value.processor.meta.ValueType type = __.cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = __.cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      if ($if(v.isEncoding())) {
        __.dl();::___.valueFromValue, v, expression;
        __.ln();
      } else if ($if($(v.isJdkOptional(), and, $(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable())))) {
        __.dl();::___.ln();
        __.out(" ");
        $(___.valueFromValue, v, expression);
        __.ln();
      } else if ($if($!(v.isJdkOptional(), and, $!(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable())))) {
        __.dl();::___.ln();
        __.out(" ");
        $(___.maybeCopyOf(v, new org.immutables.generator.Templates.Fragment(0) {
          @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();$(___.expression);
            __.dl();
          });
          __.ln();
        }));
      } else if ($if(v.isJdkOptional())) {
        __.dl();::___.ln();
        __.out(" ");
      }
    }
  });
}
```
```java
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();$_(__, requireNonNull, type);
    __.out("\n");
    $(__, expression);
    __.out("", \\
""");
    $(__, expression);
    __.out("\n");
    __.dl();
} });
    __.ln();
} else if ($if(v.isOptionalType())) {
    __.dl();___.ln();
    __.out("\n");
    $(__, optionalOf, v);
    __.out("\n");
    $(__, expression);
    __.out("\n").ln();
} else {
    __.dl();___.ln();
    __.out("\n");
    $(__, valueFromValue, v, expression);
    __.ln();
}
    __.dl();___.ln();
    __.dl();
} });
    __.dl();
}

org.immutables.generator.Templates.Invokable deepCopyOf() { return deepCopyOf; }
private final org.immutables.generator.Templates.Invokable deepCopyOf = new FragmentDispatch(2, 30);
void _t30__deepCopyOf(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.String expression = __.param(1).toString();
    __.dl();
    if ($if(v.isAttributeBuilder())) {
        __.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());
        __.out("convertToValueType\n");
        $(__, n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());
    }
    __.out("\n");
    $(__, expression);
    __.out("\n");
```
} else {
    __dl();$__._v.attributeValueType.factoryCopyOf();
    __out(“(");
    $__._v.expression();
    __out(“)" );
}

__dl();__dl();
}

org.immutables.generator.Templates.Invokable valueFromBuilder() { return valueFromBuilder; }
private final org.immutables.generator.Templates.Invokable valueFromBuilder = new FragmentDispatch(2, 31);
void _t31_valueFromBuilder(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.String expressionPrefix = __.param(1).toString();
    $__._valueFromBuilderAlt, v, $$true, expressionPrefix);
    __dl();
};

org.immutables.generator.Templates.Invokable valueFromBuilderAlt() { return valueFromBuilderAlt; }
private final org.immutables.generator.Templates.Invokable valueFromBuilderAlt = new FragmentDispatch(3, 32);
void _t32_valueFromBuilderAlt(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.Boolean mayBeNull = $if(__.param(1));
    final java.lang.String expressionPrefix = __.param(2).toString();
    $__._valueFromBuilderAlt, v, $$true, expressionPrefix);
    __dl();
};

@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
    __dl();
    if ($if(v.isEncoding())) {
        __dl();__ln();
        __out(" ");
        $__._expressionPrefix();
        $__._rr.fromBuild(), v);
        __ln();
    } else if ($if(v.isAttributeValueKindCopy())) {
        __dl();__ln();
        __out(" ");
        __dl();
        if ($if(v.isNullValuable)) {
            __dl();$__._expressionPrefix();
            $__._v.name());
            __out(" == null ? null : ");
        }
        __dl();$__._deepCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
```java
dl();
$(__, v.name());
dl();
};
ln();
} else if ($if($v.isCollectionType(), or, $v.isMapType())) {
  dl(); ln();
  out(" ");
  out($(__, expressionPrefix));
  out($(__, v.name()));
  out(" == null ? null : ");
  immutableCollectionBuild, v, $(expressionPrefix, v.name()));
ln();
out(" ");
} else if ($if($v.isNullableCollector(), and, mayBeNull)) {
  dl(); ln();
  out(" ");
  out($(__, expressionPrefix));
  out($(__, v.name()));
  out(" == null ? ");
  emptyImmutableInstance, v, v.getGenericArgs());
  out(" ");
  immutableCollectionBuild, v, $(expressionPrefix, v.name()));
  ln();
  out(" ");
}
else {
  dl(); ln();
  out(" ");
  immutableCollectionBuild, v, $(expressionPrefix, v.name()));
  ln();
  out(" ");
}
dl(); ln();
} else if ($if($v.isAttributeBuilder())) {
  dl(); ln();
  out(" ");
  out($(__, convertToValueType, v.getAttributeBuilderDescriptor());
  out(" ");
  $(expressionPrefix, v.name()));
  ln();
  out(" ");
}
```

org.immutables.generator.Templates.Invokable emptyImmutableInstance() { return emptyImmutableInstance; }
private final org.immutables.generator.Templates.Invokable emptyImmutableInstance = new FragmentDispatch(2, 33);

void _t33__emptyImmutableInstance(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = __.param(0);
  final java.lang.String genericArgsOrEmpty = __.param(1).toString();
  __.ln();
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();
if ($if(v.isEncoding())) {
      __dl();__ln();
      __out(" ");
      $(__, rr.defaultValue(), v);
      __ln();
} else if ($if($(v.isJdkOptional(), or, v.isNullable()))) {
      __dl();__ln();
      __out(" null");
      __ln();
} else if ($if(v.isOptionalType())) {
      __dl();__ln();
      __out(" ");
      __dl();
      if ($if(v.typeKind().isSortedMap())) {
        __dl();
        __ln();
        __out(" ");
        __dl();
        if ($if(v.typeKind().isSortedMap())) {
          __dl();
          __ln();
          __out(" ");
          __dl();
          if ($if(v.typeKind().isSortedMap())) {
            __dl();
            __ln();
            __out(" ");
            __dl();
          }
        }
      }
    }
  }
}
$(__, immutableCollectionCopyOfSafe, v, $$false, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();___.out("java.util.Collections.");
        $(__, v.getGenericArgs());
        __.out("emptyMap()");
        __.dl();
        __.ln();
        __.out("  ");
    } else {
        __.dl();___.ln();
        __.out("    java.util.Collections.");
        $(__, genericArgsOrEmpty);
        __.out("emptyMap()").ln();
        __.out("    ");
    }
    __.dl();___.ln();
    __.out("  ");
} else if ($if(v.isCollectionType())) {
    __.dl();___.ln();
    __.out("    ");
    $(__, guava);
    __.out(".collect.Immutable");
    $(__, v.getRawMapType());
    __.out(".");
    $(__, genericArgsOrEmpty);
    __.out("of()").ln();
    __.out("    ");
} else if ($if(v.isGenerateOrdinalValueSet())) {
    __.dl();___.ln();
    __.out("    ");
    $(__, genericArgsOrEmpty);
    __.out("org.immutables.ordinal.ImmutableOrdinalSet.");
    $(__, genericArgsOrEmpty);
    __.out("of()").ln();
    __.out("    ");
} else if ($if(v.isGenerateJdkOnly())) {
    __.dl();___.ln();
    __.out("    ");
    __.dl();
}
if ($if(v.typeKind().isSortedSet())) {
  __dl(); __ln();
  __out("    ");
  $(__, immutableCollectionCopyOfSafe, v, $$false, new org.immutables.generator.Templates.Fragm(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __out("java.util.Collections.");
      $(__, v.getGenericArgs());
      __out("emptyList()");
      __dl();
    }
  });
  __ln();
  __out("    ");
} else {
  __dl(); __ln();
  __out("    ");
  $(__, genericArgsOrEmpty);
  __out("empty");
  $(__, v.getRawCollectionType());
  __out("()").ln();
  __out("    ");
}
  __dl(); __ln();
  __out("    ");
} else if ($if(v.isCustomCollectionType())) {
  __dl(); __ln();
  __out("    ");
  $(__, v.getRawType());
  __out(".");
  $(__, genericArgsOrEmpty);
  __out("of()").ln();
  __out("    ");
}
else {
  __dl(); __ln();
  __out("    ");
  $(__, guava);
  __out(".collect.Immutable");
  $(__, v.getRawCollectionType());
  __out(".");
  $(__, genericArgsOrEmpty);
  __out("of()").ln();
  __out("    ");
}
__dl(); __ln();
else {
  __.dl();__.ln();
  __.out("  null").ln();
  __.out("  ");
}

$(__, output.error, v.originalTypeElement(), new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();__.ln();
    __.out("    Could not generate constructor for ");
    $(__, v.containingType.typeImmutable().relativeRaw());
    __.out(" Attribute "");
    $(__, v.name());
    __.out("\ it does not have default value").ln();
    __.out("  ");
    __.dl();
  }});
  __.ln();

  __.dl();__.ln();
  __.dl();
}

org.immutables.generator.Templates.Invokable generateConstructorNoAttributes() { return generateConstructorNoAttributes; }

private final org.immutables.generator.Templates.Invokable generateConstructorNoAttributes = new FragmentDispatch(2, 34);

void _t34__generateConstructorNoAttributes(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = __.cast(__.param(0));
  final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> attributes = __.cast(__.param(1));
  __.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : __.in(attributes)) {
      final java.lang.String n = __.cast(v.name());
      __.dl();___.ln();
      __.dl();
      if ($if(v.isEncoding())) {
        __.dl();___.ln();
        $(__, rr.uninitializeFieldValue(), v);
        __.ln();
      } else if ($if(v.isPrimitive())) {
        __.dl();___.ln();
        __.out("  ");
        __.dl();
        if ($if(v.isBoolean())) {
          __.dl();___.ln();
          __.out("this.");
        }
$(__, n);
__.out(" = false;").ln();
__.out(" ");

} else {
__.dl();__.ln();
__.out("this. ");
$__(__, n);
__.out(" = 0;").ln();
__.out(" ");

}
__.dl();__.ln();

} else {
__.dl();__.ln();
__.out("this.");
$__(__, n);
__.out(" = null;").ln();

}
__.dl();__.ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
};
$___.dl();__.out(" = ");
$___.emptyImmutableInstance, v, """);
__.out(";").ln();
__.dl();_it1.index++;
_it1.first = false;
}
}
__.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : $in(attributes)) {
 if ($if(v.isGenerateDefault)) {
 final java.lang.String n = $cast(v.name());
 ___.dl();__.ln();
 ___.dl();
 if ($if(type.isAnnotationType())) {
 ___.dl();__.ln();
 ___.out("this.");
 $(_, n);
 ___.out(" = DEFAULT_VALUE_ ");
 $(_, toConstant, n);
 ___.out(";").ln();
 } else if ($if$('v.isGenerateSafeDerived()) { 
 ___.dl();__.ln();
 ___.out("this.");
 $(_, n);
 ___.out(" = ");
 $(_, valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
 @Override public void run(org.immutables.generator.Templates.Invokation __) {
 ___.dl();$(_, invokeSuper, v);
 ___.out(".");
 $(_, v.names.get);
 ___.out("()" );
 ___.dl();
 });
 ___.out(";").ln();
 }
 ___.dl();__.ln();
 ___.dl();_it1.index++;
 _it1.first = false;
 } }
 ___.dl();__.ln();
 ___.dl();
}
org.immutables.generator.Templates.Invokable generateImmutableMembers() { return generateImmutableMembers;
private final org.immutables.generator.Templates.Invokable generateImmutableMembers = new FragmentDispatch(1, 36);

void _t36__generateImmutableMembers(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  {final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters =
       $cast(type.getSettableAttributes());
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters =
       $cast(type.getImplementedAttributes());
   __dl();__ln();
   {final org.immutables.generator.Templates.Iteration __it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
      __dl();__ln();
      __out(" ");
      __dl();
      if ($if(v.isEncoding())) {
        __dl();__ln();
        __out(" ");
        $(__, rr.declareFields(), v);
        __ln();
        __out(" ");
      } else {
        __dl();__ln();
        __out(" ");
        {final org.immutables.generator.Templates.Iteration __it3 = new org.immutables.generator.Templates.Iteration();
          for (final java.lang.String anj : $in(v.fieldInjectedAnnotations())) {
            __dl();__ln();
            __out(" ");
            $(__, anj);
            __ln();
            __out(" ");
            __dl();__it3.index++;
            __it3.first = false;
          }
        }__dl();__ln();
        __out(" ");
      } final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
      __dl();
      if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
        __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
      }
    __dl();__ln();
  __ln();
}
__out(" private ");
__dl();
if ($if(v.isGenerateTransientDerived())) {
  __dl();__out("transient ");
}
__dl();__out("final ");
$___.v.atanullability();
$___.immutableImplementationType, v);
__out(" ");
$___.v.name());
__out(";"),ln();
__out(" ");
__dl();__ln();
__dl();_it2.index++; _it2.first = false;
}}
__dl();__ln();
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations())) {
  __dl();__ln();
  __out(" ");
  $___.anj);__ln();
  __out(" ");
  __dl();_it2.index++;_it2.first = false;
}}
__dl();__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
__dl();
if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
  __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
  __dl();
}
__ln();
__out(" ");
__dl();
if ($if(type.isUseLazyhash())) {
```java
private transient final int hashCode;

if (type.isGenerateOrdinalValue()) {

    final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
    __dl();
    if ($if($not, type.serial.isSimple())) {
        __dl();__out(" transient");
    }
    __dl();__dl();
}

if (type.isUsePrehashed()) {
    __dl();__out(" final");
}

__dl();__out(" int hashCode;");

if (type.isUseLazyhash()) {
    __dl();__out(" // hashCode lazily computed");
}

if (type.isGenerateOrdinalValue()) {

    final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
    __dl();
    if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
        __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
    __dl();
}
```

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations()))
{
  __dl();__ln();
  __out(" ");
  ${(__, anj)};
  __ln();
  __out(" ");
  __dl();_it2.index++;
  _it2.first = false;
}
__dl();__ln();
__out(" private final int ordinal;").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
  __dl();
  if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields()))
  {
    __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
  }
  __dl();
  __ln();
  __out(" ");
}
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations()))
{
  __dl();__ln();
  __out(" ");
  ${(__, anj)};
  __ln();
  __out(" ");
  __dl();_it2.index++;
  _it2.first = false;
}}
__dl();__ln();
__out(" private final Domain domain;").ln();
}
__dl();__ln();
__dl();
if ($if(type.isUseSingleton()))
{
  __dl();__ln();
  __ln();
  __out(" private ");
  ${(__, type.typeImmutable().simple());
  __out("() {");
  $(__, output.collapsible, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
  
}
__out("    ");
$___.generateConstructorDefaultAttributes, type, type.getImplementedAttributes();
__ln();
__out("    ");
$___.generateDerivedConstruction, type, noAttributes();
__ln();
__out("    ");
$___.generateAfterConstruction, type, $$false);
__ln();
__out("    ");
__dl();
});
__out(""").ln();
} else if ($if(type.isGeneratePrivateNoargConstructor())) {
__dl();__ln();
__ln();
__out("    ");
$___.type.typeImmutable().simple();
__out("() {");
$___.output.collapsible, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();__ln();
__out("    ");
$___.generateConstructorNoAttributes, type, type.getImplementedAttributes();
__ln();
__out("    ");
$___.generateAfterConstruction, type, $$false);
__ln();
__out("    ");
__dl();
}});
__out(""").ln();
}
__dl();__ln();
__dl();
if ($if($if(type.isUseConstructor(), andnot, type.isGenerateConstructorUseCopyConstructor()))) {
__dl();__ln();
__ln();
$___.generateConstructor, type, $$false, constructorAcceptType);
__ln();
__dl();__ln();
__dl();
if ($if(type.isUseOptionalAcceptNullableConstructor()) {
__dl();__ln();
__ln();
$___.generateConstructor, type, $$true, constructorAcceptTypeNoOptional);
__ln();
if ($if(type.isGenerateBuilderConstructor())) {
  __dl();__ln();
  __ln();
  __out("  private ");
  $(___.type.typeImmutable().simple());
  __out("(");
  $(___.type.typeBuilderImpl().relative());
  __out(" builder) ");__ln();
  __out(" ");
  final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
    if ($if($(not, $(v.isGenerateDerived, or, v.isGenerateDefault)))) {
      final java.lang.String n = $cast(v.name());
      __dl();__ln();
      __out(" ");
      __dl();
      if ($if(v.hasVirtualImpl())) {
        __dl();__ln();
        __out(" ");
        $(__, rr.virtualImpl(), v);
        __out(" = ");
        final org.immutables.value.processor.meta.ValueAttribute v_valueFromBuilder_507842697 = $cast(v);
        final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = new
        org.immutables.generator.Templates.Fragment(0) {
          @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable
            expressionPrefix_valueFromBuilder_507842697 = this;
            __out("builder.");
            __dl();
          }};__dl();$(__, valueFromBuilderAlt, v_valueFromBuilder_507842697, $$true,
        expressionPrefix_valueFromBuilder_507842697);
    }
    __out(";").ln();
    __out(" ");
  }
  else {
    __dl();__ln();
    __out(" this.");
    $(__, n);
    __out(" = ");
  }
}
final org.immutables.value.processor.meta.ValueAttribute v_valueFromBuilder_507842697 = $cast(v);
final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
        __dl();final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = this;
        __dl();$.out("builder.");
        __dl();$.dl();$(__, valueFromBuilderAlt, v_valueFromBuilder_507842697, $true, expressionPrefix_valueFromBuilder_507842697);
    }
    __out("; ").ln();
    __out(" ");
    __dl();__ln();
    __out(" ");
    __dl();__ln();
    __dl();__ln();
    __dl();__ln();
    __dl();
}
if ($if(type.isGenerateSafeDerived())) {
    __dl();__ln();
    __out(" ");
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
        if ($if(v.isGenerateDefault)) {
            final java.lang.String n = $cast(v.name());
            __dl();__ln();
            __out("  if (");
            __dl();
            if ($if(v.isEncoding())) {
                __dl();__out("builder.");
                $(_._.rr.wasInit(), v);
            } else if ($if(v.requiresTrackIsSet())) {
                __dl();__out("builder.");
                $(_._.v.names.isSet());
                __out("()");
            } else {
                __dl();__out("builder.");
                $(_._.n);
                __out(" != null");
            }
        } else {
            __dl();__out("builder.");
            $(_._.n);
            __out(" != null");
        }
    }
}
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```java
$___.dl();$___.out(" ").ln();
$___.out("  ");
$___.dl();₹(___, disambiguateField, type, "initShim");
$___.out(".");
$___.dl();₹(___, v.names.init);
$___.out("(')");
$___.dl();₹(___, valueFromBuilderAlt, v, v.requiresTrackIsSet(), new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();___.out("builder.");
    __.dl();
  }});
$___.dl();
$___.out(" ").ln();
$___.out(" ");ln();
$___.out(" ");
$___.dl();___.it2.index++;
___.it2.first = false;
}}}
$___.dl();
$___.ln();

{final org.immutables.generator.Templates.Iteration __t2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : ₹in(getters)) {
  if (₹if(v.isGenerateDefault)) {
    final java.lang.String n = ₹cast(v.name());
    __.dl();___.ln();
    __.out("  ");
    __.dl();
    if (₹if(₹if(type.isAnnotationType(), ornot, type.isGenerateSafeDerived()))) {
      __.dl();___.ln();
      __.out("  this.");
      ___.n;
      __.out(" = ");
      __.dl();
      if (₹if(v.requiresTrackIsSet())) {
        __.dl();___.out("builder.");
        ___.n;
        __.out(" != null");
      } else {
        __.dl();___.out("builder.");
        ___.n;
        __.out(" != null");
      }
    } else {
      __.dl();___.out("builder.");
      ___.n;
      __.out(" != null");
    }
  }
}
```
$(__, valueFromBuilderAlt, v, v.requiresTrackIsSet(), new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();___.out("builder.");
    __.dl();
  });
  __.ln();
  __.out("        : ");
  __.dl();
  if ($if(type.isAnnotationType())) {
    __.dl();___.out("DEFAULT_VALUE_");
    $(__, toConstant, v.name());
  } else {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute v_valueFromSuper_1184295742 =
    $cast(v);
    final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = new
    org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 =
        this;
        $(__, invokeSuper, v);
        __.out(",");
        $(__, v.names.get);
        __.out("()");
        __.dl();
      });___.dl();
      if ($if(v_valueFromSuper_1184295742.isGuavaImmutableDeclared())) {
        __.dl();___.dl();
        if ($if($(not, v_valueFromSuper_1184295742.isNullable()))) {
          __.dl();$(__, requireNonNull, v_valueFromSuper_1184295742.containingType);
          __.out("(");
          $(__, expression_valueFromSuper_1184295742);
          __.out(";");
          $(__, v_valueFromSuper_1184295742.name());
          __.out("\n"));
      } else {
        __.dl();$(__, expression_valueFromSuper_1184295742);
      }
      __.dl();
    }]
    ___.dl();$
  }
})
if ($if(type.isUseCopyMethods())) {
    __dl();__ln();
    __ln();
    __out(" ");
    __dl();
    if ($if($(type.factoryOf().isNew(), and, type.isGenerateConstructorUseCopyConstructor()))) {
        __dl();
        __ln();
        __ln();
        __out(" * Construct a new immutable @code ");
        $(__, type.name());
        __out(" instance.").ln();
        __out(" ");
        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
            __dl();
            __ln();
            __out(" * @param ");
            $(__, v.name());
            __out(" The value for the @code ");
            $(__, v.name());
            __out(" attribute");
            __dl();
            if ($if(v.isNullable())) {
                __dl();__out(" can be @code null");
            }
        }
        __dl();
    }
}

__.out("  ");
__.dl();__ln();
__.out("  ");
$.__(eachLine, type.constructorInjectedAnnotations());
__.ln();
__.out("  ");
$.__(eachLine, type.constructorInjectedAnnotations());
__.ln();
__.out(" public ");
$.__(type.typeImmutable().simple());
__.out("(");
$.__(output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl();__.ln();
  $.__(" ");
  [final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __.dl();___.dl();
    if ($if($(not, _it2.first))) {
      __.dl();__.out(",");__.ln();
      __.out(" ");
    }
  }
  __.dl():$.__(v.getConstructorParameterAnnotations());
  $.__(v.atNullability());
  $.__(immutableImplementationType, v);
  __.out(" ");
  $.__(v.name());
  __.dl();_it2.index++; _it2.first = false;
  })
  __.dl():___.dl();
  })
  __.out(" ").ln();
  __.out(" ");
} else {
  __.dl();__.ln();
  __.out(" private ");
  $.__(type.typeImmutable().simple());
  __.out("(");
  $.__(output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
  __.dl(); __.ln();
  __.out("   ");
  __.dl();
  if ($if($(v.isGenerateDefault, and, type.isGenerateSafeDerived()))) {
    __.dl(); __.ln();
    __.out("   ");
    $(__, shim);
    __.out(".");
    $(__, v.names.init);
    __.out("(");
    $(__, n);
    __.out(";").ln();
    __.out("   ");
  } else if ($if(v.hasVirtualImpl())) {
    __.dl(); __.ln();
    __.out("   ");
    $(__, rr.virtualImpl(), v);
    __.out(" = ");
    $(__, n);
    __.out(";").ln();
    __.out("   ");
  } else {
    __.dl(); __.ln();
    __.out("   this.");
    $(__, n);
    __.out(" = ");
    $(__, n);
    __.out(";").ln();
    __.out("   ");
  }
}
___.dl(); ___.ln();
___.out("   ");
___.dl(); __.it2.index++;___.it2.first = false;
}
___.dl(); ___.ln();
___.out("   ");
$(___.generateDerivedConstruction, type, setters);
___.ln();
}
else {
  ___.dl(); ___.dl(); ___.ln();
  ___.out("   ");
} {final org.immutables.generator.Templates.Iteration __.it2 = new org.immutables.generator.Templates.Iteration();}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __dl();__ln();
    __out("    this.");
    $(__, n);
    __out(" = ");
    $(__, n);
    __out(";").ln();
    __out(" ");
    __dl();_it2.index++;
    _it2.first = false;
}
__dl();__ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
        if ($if(v.isGenerateDerived)) {
            final java.lang.String n = $cast(v.name());
            __dl();__ln();
            __out("    this.");
            $(__, n);
            __out(" = ");
            $(__, n);
            __out(";").ln();
            __out(" ");
            __dl();_it2.index++;
            _it2.first = false;
        }
    }
    __dl();__ln();
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
            final java.lang.String n = $cast(v.name());
            __dl();__ln();
            __out("    this.");
            $(__, n);
            __out(" = ");
            $(__, n);
            __out(";").ln();
            __out(" ");
            __dl();
            $(___valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();$(__, invokeSuper, v);
                    __out(".");
                    $(__, v.names.get);
                    __out("()";)
                    __dl();
                }});
            __out(";").ln();
            __out(" ");
            __dl();_it2.index++;
            _it2.first = false;
        }
    }
    __dl();__ln();
}
__dl();__ln();
__out(" ");
$(__, generateAfterConstruction, type, $$false);
__ln();
__out("} ").ln();

} __dl();__ln();
__dl();
if ($if(type.isGenerateSafeDerived())) {
org.immutables.generator.Templates.Invokable generateConstructor() { return generateConstructor; }
private final org.immutables.generator.Templates.Invokable generateConstructor = new FragmentDispatch(3, 37);
void _t37__generateConstructor(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final java.lang.Boolean withoutOptional = $if(__.param(1));
final org.immutables.generator.Templates.Invokable constructorAcceptTypeInvokable = $cast(__.param(2));
__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
if ($if(type.factoryOf().isNew())) {
__dl();__ln();
__out("/**").ln();
__out(" * Construct a new immutable { @code ");
$___.type.name().ln();
__out(" } instance.").ln();
__out(" * ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
__dl();__ln();
__out(" * @param ");
$___.v.name().ln();
__out(" The value for the { @code ");
$(__, v.name());
__out("{\ } attribute");
__dl();
if ($if(v.isNullable()) {
  __dl();__out("can be \{code null\}");
}
__dl();__ln();
__out("\"");
__dl();__it1.index++;
__it1.first = false;
})
__dl();__ln();
__out("*/");
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final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  final java.lang.String n = $cast(v.name());
  __dl();
  __ln();
  if ($if($(v.isGenerateDefault, and, type.isGenerateSafeDerived()))) {
    __dl();
    __ln();
    __dl();
    __out("    ");
    $(__, shim);
    __out(".");
    $__ __, v.names.init);
    __out("();

  } else if ($if(v.hasVirtualImpl())) {
    __dl();
    __ln();
    __dl();
    __out("    ");
    $(__, rr.virtualImpl(), v);
    __out(" = ");
    $(__, valueFrom, type, v, n, withoutOptional);
    __out(";");

  } else {
    __dl();
    __ln();
    __out("    this.");
    $(__, n);
    __out(" = ");
    $(__, valueFrom, type, v, n, withoutOptional);
    __out(";");

  }
  __dl();
  __ln();
  __dl();
  __out("    ");
  __dl();
  _it1.index++;
  _it1.first = false;
}
__dl();
__ln();
$__ generateConstructorDefaultAttributes, type, type.getConstructorOmitted());
__ln();
__out("    ");
$__ generateDerivedConstruction, type, type.getConstructorArguments());
__ln();
} else {
  __dl();
  __dl();
  __ln();
__out("  ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
final java.lang.String n = $cast(v.name());
__dl();__ln();
__out("  ");
$__(_. n);
__out(" = ");
$__(_. valueFrom, type, v, n, withoutOptional);
__out(";").ln();
__out(" ");
__dl();_it1.index++;
_it1.first = false;
}}
__dl();__ln();
__out("  ");
$__(_. generateAfterConstruction, type, $$false);
__ln();
__out("  ");
__dl();};

public org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute() { return
buildFromMandatoryAttribute; }
private final org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute = new
FragmentDispatch(2, 38);
void _t38__buildFromMandatoryAttribute(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable buildAttribute = $cast(__.param(0));
final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
__ln();
__dl();
if ($if(v.isMandatory())) {
__dl();__ln();
__out("if (instance.");
$__(_. v.names.isSet());
__out(") {").ln();
__out("  ");
$__(_. buildAttribute, v);
__ln();
__out("  ");
} else {
__dl();__ln();
$__(_. buildAttribute, v);
__ln();}
org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck() { return
dynamicFromModifiableCheck; }
private final org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck = new
FragmentDispatch(3, 39);
void _t39__dynamicFromModifiableCheck(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String varName = __.param(1).toString();
  final java.lang.String returnStatement = __.param(2).toString();
  __ln();

  if ($if(type.kind().isModifiable())) {
    __dl();
    __out("if (");
    $(__, varName);
    __out(" instanceof ");
    $(__, type.typeModifiable().relativeRaw());
    $(__, type.generics().unknown);
    __out(" )");
    __ln();
    if ($if(returnStatement)) {
      __dl();
      __out(" return ");
      $(__, type.names().from);
      __out(" ");
      $(__, type.typeModifiable());
      __out(" ");
      $(__, varName);
      __ln();
      __out(" ");
    } else {
      __dl();
      __out(" return ");
      $(__, type.names().from);
      __out(" ");
      $(__, type.typeModifiable());
      __out(" ");
      $(__, varName);
  } else {
    __dl();
    __out(" else ");
    $(__, type.names().from);
    __out(" ");
    $(__, type.typeModifiable());
    __out(" ");
    $(__, varName);
  }
}
org.immutables.generator.Templates.Invokable generateSafeDerivedShim() { return generateSafeDerivedShim; }
private final org.immutables.generator.Templates.Invokable generateSafeDerivedShim = new FragmentDispatch(1, 40);
void _t40__generateSafeDerivedShim(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   java.util.Collection<org.immutables.value.processor.meta.ValueAttribute> deriveds = org.immutables.generator.Intrinsics.$collect();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     if ($if($(v.isGenerateDefault, or, v.isGenerateDerived))) {
       deriveds.add(v);
     }
   }
   {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    if ($if($(type.getHiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
      __.dl(); __.out("@SuppressWarnings("Immutable")");
    }
    {final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
     if ($if($((type.getHiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable")))) {
       __.dl(); __.out("private transient volatile InitShim");
     }
     __.ln();
     __.out("private final byte STAGE_INITIALIZING = -1;");
     __.out("private final byte STAGE_UNINITIALIZED = 0;");
     __.out("private final byte STAGE_INITIALIZED = 1;");
     __.dl(); __.ln();
    }
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    java.util.Collection<org.immutables.value.processor.meta.ValueAttribute> deriveds = org.immutables.generator.Intrinsics.$collect();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
      if ($if($(v.isGenerateDefault, or, v.isGenerateDerived))) {
        deriveds.add(v);
      }
    }
    __.dl(); __.ln();
    __.out("private static final byte STAGE_INITIALIZING = -1;");
    __.out("private static final byte STAGE_UNINITIALIZED = 0;");
    __.out("private static final byte STAGE_INITIALIZED = 1;");
    __.dl(); __.ln();
    final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
    if ($if($((type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable")))) {
      __.dl(); __.out("@SuppressWarnings("Immutable")");
    }
    __.ln();
    __.out("private transient volatile InitShim");
    __.ln();
    __.out("new InitShim();");
    __.ln();
    __.dl(); __.ln();
  }
  __.ln();
  __.out(""");
for (final org.immutables.value.processor.meta.ValueAttribute f : $in(deriveds)) {
  __dl();__ln();
  __dl();
  if ($if(f.isEncoding())) {
    __dl();__dl();
    if ($if(_it2.first)) {
      __dl();__dl();
      if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
        __dl();__ln();
        __out("@com.google.errorprone.annotations.CanIgnoreReturnValue").ln();
      }
      __dl();
    }__dl();__ln();
    __dl();__ln();
    __dl();_it2.index++; _it2.first = false;
  }}
__dl();__ln();
__out("private final class InitShim {").ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
  __dl();__ln();
  __out(""");
  final org.immutables.generator.Templates.Invokable stage = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.generator.Templates.Invokable stage = this;
      __($__, disambiguateField, type, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl();$___.v.name());
          __dl();
          __out("BuildStage");
          __dl();
        });__dl();__ln();
        __out(""");
      }__dl();__ln();
      final org.immutables.generator.Templates.Invokable invokeSuperGet = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl();$___.v.name());
          __dl();
          __out("BuildStage");
          __dl();
        });__dl();__ln();
        __out(""");
      }__dl();
    }__dl();__ln();
    __dl();
  }__dl();
}
```java
  private byte
  private immutableImplementationType, v;
  out(" ");
  out(" ");
  out(" ");
  out(" ");
  out(" ");
  if ($if(v.isEncoding())) {
    dl();
  }
  dl();
  ln();
  out(" ");
  immutableImplementationType, v;
  out(" ");
  v.names.get);
  out(" ");
  out(" ");
  out(" ");
  " == STAGE_ INITIALIZING) throw new ");
  type.getThrowForInvalidImmutableState());
  out("(").ln();
  out(" ");
  " == STAGE_ INITIALIZING) ").ln();
  out(" ");
  out(" ");
  v.name());
  out(" ");
  final org.immutables.value.processor.meta.ValueAttribute v_valueFromSuper_1184295742 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      dl():final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = this;
      dl();
      if ($if(v.defaultInterface())) {
        dl():$(__, invokeSuperGet);
      } else {
        dl():$___.invokeSuperQualified, v);
        out(".");
        v.names.get);
```
if ($if(v.isGenerateDefault)) {
    __.dl();___.ln();
    ___.ln();
    ___.out("  void ");
    $(__, v.names.init);
    ___.out("()");
    $(__, immutableImplementationType, v);
    ___.out(" ");
    $(__, v.name());
    ___.out(" { ");___.ln();
    ___.out("  this.");
    $(__, v.name());
    ___.out(" = ");
    $(__, v.name());
    ___.out(";");___.ln();
    ___.out(" ");
    ___.dl();
    if ($if(v.isEncoding())) {
        __.dl();$(__, rr.shimAssign(), v);
    }
    __.dl();___.ln();
    ___.out("  ");
    $(__, stage);
    ___.out(" = STAGE_INITIALIZED; ");___.ln();
    ___.out("} ");___.ln();
    ___.out(" ");
}
___.dl();___.ln();
___.ln();
___.dl();___.it2.index++;
___.it2.first = false;
}
___.dl();___.ln();
___.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
    __.dl();___.ln();
    ___.out(" ");
    final org.immutables.generator.Templates.Invokable stage = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();
        final org.immutables.generator.Templates.Invokable stage = this;
        $(__, disambiguateField, type, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();
                $(__, v.name());
                __.out("BuildStage");
                __.dl();
            }
        });
        __.dl();
        __.ln();
        __.out("    if (" + stage);
        __.out(" == STAGE_INITIALIZING) attributes.add(" + attributes;" );
        $(__, v.name());
        __.out("" );
        __.out(""");
        __.dl();
        __.ln();
        __.out("    return " + v.name());
        __.out("Cannot build " );
        $(__, type.name());
        __.out("attribute initializers form cycle " + attributes;" );
        __.out(""");
        __.ln();
        __.out(""");
        __.ln();
        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
            if ($if(v.defaultInterface())) {
                __.dl();
                __.ln();
                __.out("private ");
                $(__, v.atNullability());
                $(__, v.getType());
                __.out(""");
                $(__, invokeSuperGet);
            }
        }
    }
}

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org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional() { return 
constructorAcceptTypeNoOptional; }
private final org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional = new FragmentDispatch(1, 41);
void _t41__constructorAcceptTypeNoOptional(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __$.out(output.trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();
            if ($if(a.isOptionalType())) {
                __dl();
                __$.out(" ");
                __$.out(" ");
                __$.out(" ");
                __$.out(" ");
            } else {
                __dl();
                __$.out(" ");
                __$.out(" ");
                __$.out(" ");
                __$.out(" ");
            }
        }
    });
}
org.immutables.generator.Templates.Invokable constructorAcceptType() { return constructorAcceptType; }
private final org.immutables.generator.Templates.Invokable constructorAcceptType = new FragmentDispatch(1, 42);

void _t42__constructorAcceptType(org.immutables.generator.Templates.Invokation __) {
  __.dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  $(___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl(); __.ln();
      __.dl();
      if ($if(a.isEncoding())) {
        __.dl(); __.ln();
        __.out(" ");
        $(__, rr.constructorAcceptType(), a);
        __.ln();
      } else if ($if(a.typeKind().isMultimapKind())) {
        __.dl(); __.ln();
        __.out(" ");
        $(__, guava);
        __.out(" .collect.Multimap<");
        $(__, a.getConsumedElementType());
        __.out(" , ? extends ");
        $(__, a.getSecondaryElementType());
        __.out(" >").ln();
      } else if ($if(a.typeKind().isMapKind())) {
        __.dl(); __.ln();
        __.out(" java.util.Map<");
        $(__, a.getConsumedElementType());
        __.out(" , ? extends ");
        $(__, a.getSecondaryElementType());
        __.out(" >").ln();
      } else if ($if(a.typeKind().isCollectionKind())) {
        __.dl(); __.ln();
        __.out(" Iterable<");
        $(__, a.getConsumedElementType());
        __.out(" >").ln();
      } else if ($if($a.isOptionalType(), andnot, a.isJdkSpecializedOptional())) {
        __.dl(); __.ln();
        __.out(" ");
        $(__, a.getRawType());
        __.out("<");
        $(__, a.getConsumedElementType());
        __.out(">").ln();
      } else {
        __.dl(); __.ln();
        __.out(" ");
      }
    }
  }
}
org.immutables.generator.Templates.Invokable generateJacksonMapped() { return generateJacksonMapped; }
private final org.immutables.generator.Templates.Invokable generateJacksonMapped = new FragmentDispatch(1, 43);
void _t43__generateJacksonMapped(org.immutables.generator.Templates.Invocation __) {
    final org.immutables.value.processor.meta.ValueType type = __.param(0);
    if (type.isGenerateJacksonMapped() && type.getJacksonValue()) {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        final org.immutables.value.processor.meta.ValueAttribute jval = __.param(1);
        __.ln();
        __.out("/**").ln();
        __.out(" * @param jsonValue to construct object from").ln();
        __.out(" * @return An immutable value type").ln();
        __.out(" * @deprecated Do not use this method directly, it exists only for the <em>Jackson</em>-binding infrastructure").ln();
        __.out(" */").ln();
        __.out("@Deprecated").ln();
        __.dl();
    } else {
        __.dl();
        __.out("@com.fasterxml.jackson.annotation.JsonCreator").ln();
    }
}
```java
final org.immutables.generator.Templates.Invokable cast = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();
        __dl();
        if ($(type.isUseBuilder())) {
            __dl();
            __dl();
        }
    }
};

if ($(type.isUseBuilder())) {
    __dl();
    __dl();
    if ($(v, eq, jval)) {
        __dl();
        __dl();
        if ($(v.isEncoding())) {
            __dl();
            __dl();
        }
    }
};
```
} else if ($if(v.isCollectionType())) {
  __dl();__ln();
  __out(" builder.");
  $___.v.names.addAll();
  __out("(jsonValue:").ln();
  __out(" ");
} else if ($if(v.isMapType())) {
  __dl();__ln();
  __out(" builder.");
  $___.v.names.putAll();
  __out("(jsonValue:").ln();
  __out(" ");
}
else {
  __dl();__ln();
  __out(" builder.");
  $___.v.names.init;
  __out("(jsonValue:").ln();
  __out(" ");
}

}__dl();__ln();
__out(" ");
__dl();_it2.index++;
_it2.first = false;
}}
__dl();__ln();
__out(" return ");
$___.cast;
__out("builder.");
$___.type.names().build;
__out("()").ln();
} else if ($if(type.isUseSingletonOnly())) {
  __dl();__ln();
  __out(" return ");
  $___.cast;
  $___.type.factoryInstance().relative();
  __out("()").ln();
}
else {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(type.isUseConstructor())) {
    __dl();__ln();
    __out(" ");
    $___.type.typeImmutable().relative();
    __out(" instance = ");
  } else if ($if(type.isUseSingletonOnly())) {
    __dl();__ln();
    __out(" ");
    $___.cast;
    $___.type.factoryInstance().relative();
    __out("()").ln();
  } else {
    __dl();__ln();
    __out(" ");
    __dl();
  }
}
$___.out("\n___.dl();___.out("jsonValue");___.dl();_it2.index++;
  _it2.first = false;
})
___.dl();___.out(";").ln();
  ___.out(" ");
} else if ($if(type.isUseSingleton())) {
  ___.dl();___.ln();
  ___.out(" ");
  $___.type.typeImmutable().relative();
  ___.out(" instance = ");
  $___.cast();
  $___.type.factoryInstance().relative();
  ___.out("();").ln();
  ___.out(" ");
} else {
  ___.dl();___.ln();
  ___.out(" ");
  $(___.output.error, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      ___.dl();___.out("Cannot generate JSON code when there are no builders, constructors or singletons available");
      ___.dl();
    }});
    ___.ln();
    ___.out(" ");
  
  }
___.dl();___.ln();
  ___.out(" ");
  [final org.immutables.generator.Templates.Iteration _it2 = new
  org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute o :
    $in(type.getWithSettableAfterConstruction())) {
    if ($if($(o, eq, jval))) {
      ___.dl();___.ln();
      ___.out(" instance = instance.");
      $___.o.names.with();
      ___.out("(jsonValue);").ln();
      ___.out(" ");
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```java
___.dl();_.it2.index++;
_.it2.first = false;
}
}
___.dl();___.ln();
___.out("  return instance;").ln();

}
___.dl();___.ln();
___.out("}").ln();
___.dl();_.it1.index++;
_.it1.first = false;
}
___.dl();___.ln();
___.out(" ");

} else {
___.dl();___.ln();
___.ln();
___.out("/**").ln();
___.out(" * Utility type used to correctly read immutable object from JSON representation.").ln();
___.out(" */ @deprecated Do not use this type directly, it exists only for the <em>Jackson</em>-binding infrastructure").ln();
___.out(" */").ln();
$(___.atGenerated, type);
___.ln();
___.out("@Deprecated").ln();
___.dl();___.ln();
{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
___.dl();
if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
"com.google.errorprone.annotations.Immutable")) {
___.dl();___.out("@SuppressWarnings("Immutable")");

}
___.dl();
}
___.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonDeserialize_1691212826 = $cast(type);
___.dl();
if ($if(type_overrideJsonDeserialize_1691212826.isJacksonDeserialized()) {
___.dl();___.out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");

}
___.dl();
}
___.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonTypeInfo_1598944724 = $cast(type);
___.dl();
if ($if(type_overrideJsonTypeInfo_1598944724.isJacksonDeserialized())) {
___.dl();___.out("@com.fasterxml.jackson.databind.annotation.JsonTypeInfo");

}
___.dl();
}
___.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonDeserialize_1691212826 = $cast(type);
___.dl();
if ($if(type_overrideJsonDeserialize_1691212826.isJacksonDeserialized()) {
___.dl();___.out("@com.fasterxml.jackson.databind.annotation.JsonDeserialization");

}
___.dl();
}
___.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonTypeInfo_1598944724 = $cast(type);
```
if ($if(type_overrideJsonTypeInfo_1598944724.isJacksonJsonTypeInfo())) {
  __dl();
  __out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)");
  __dl();
  __ln();
  __out("static final");
} else {
  __dl();
  __ln();
  __out("class Json");
  __ln();
  __out(" ");
  __dl();
  __ln();
  __out(" ");
  __ln();
  __out(" ");
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    if ($if($(not, v.jacksonAnyGetter))) {
      __dl();
      __ln();
      __out(" ");
      __dl();
      if ($if(v.isEncoding())) {
        __dl();
        __ln();
        __out(" ");
        __dl();
        if ($if(v.instantiation.supportsDefaultValue())) {
          __dl();
          __ln();
          __out(" ");
          __dl();
          if ($if(v.isEncoding())) {
            __dl();
            __ln();
            __out(" ");
            __dl();
            if ($if(v.instantiation.supportsDefaultValue())) {
              __dl();
              __ln();
              __out(" ");
              __dl();
              if ($if(v.isEncoding())) {
                __dl();
                __ln();
                __out(" ");
                __dl();
                if ($if(v.instantiation.supportsDefaultValue())) {
                  __dl();
                  __ln();
                  __out(" ");
                  __dl();
                  if ($if(v.isEncoding())) {
                    __dl();
                    __ln();
                    __out(" ");
                    __dl();
                    if ($if(v.instantiation.supportsDefaultValue())) {
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                      __ln();
                      __out(" ");
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                      if ($if(v.isEncoding())) {
                        __dl();
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                        __out(" ");
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                        if ($if(v.instantiation.supportsDefaultValue())) {
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                              if ($if(v.isEncoding())) {
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                                                                                                                          __ln();
                                                                                                                          __out(" ");
                                                                                                                          __dl();
                                                                                                                          if ($if(v.instantiation.supportsDefault}
```java
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl();__out("@javax.annotation.Nullable ");
  }
  __dl();
}__dl();__ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
  __dl();__ln();
  __out(" ");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    __dl();
    if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
      __dl();__out("@javax.annotation.Nullable ");
    }
    __dl();
  }__dl();
  __out(" ");
  __dl();__ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
    __dl();
    if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
      __dl();__out("empty");
    } else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
      a_optionalEmpty_1867206284.isJavaslangOptional()))) {
      __dl();__out("none");
    } else {
      __dl();__out("absent");
    }
  }
  __dl();__out("()");
}```
}  __.out(";").ln();
  __.out(" ");
} else if ($if($(v.isCollectionType(), or, v.isMapType()))) {
  __.dl();___.ln();
  __.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __.dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __.dl();___.out("@javax.annotation.Nullable ");
  }
  __.dl();
  $(__, v.getType());
  __.out(" ");
  $(__, v.name());
  __.out(" = ");
  $(__, emptyImmutableInstance, v, "");
  __.out(";").ln();
  __.out(" ");
} else if ($if(v.isPrimitive())) {
  __.dl();___.ln();
  __.out(" ");
  $(__, v.getType());
  __.out(" ");
  $(__, v.name());
  __.out(";").ln();
  __.out(" ");
} else {
  __.dl();___.ln();
  __.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __.dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __.dl();___.out("@javax.annotation.Nullable ");
  }
  __.dl();
  $(__, v.getType());
  __.out(" ");
  $(__, v.name());
  __.out(";").ln();
  __.out(" ");
}
}
if ($if($v.isPrimitive(), or, $(v.requiresTrackIsSet(), andnot, v.jacksonAnyGetter))) {
    __dl();__ln();
    __out("  ");
    __dl();
    $(___.disambiguateField, type, $(v.name(), "IsSet"));
    __out(";").ln();
    __out("  ");
}

__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}}
__dl();__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    if ($if(v.jacksonAnyGetter)) {
        __dl();__ln();
        __out("  final ");
        $(__, v.getType());
        __out("  ");
        $(__, v.name());
        __out(" = new java.util.HashMap");
        $(__, v.getGenericArgs());
        __out(";").ln();
        __dl();_it1.index++;
        _it1.first = false;
    } else {
        $(eachLine, v.getAnnotations());
        __ln();
        __out("  ");
        $(eachLine, v.initializerInjectedAnnotations());
        __ln();
        __out(" public void ");
        $(__, v.names.beanSet());
        __out("()");
        $(__, v.atNullability());
        __out(" ");
        $(__, v.getType());
        __out(" ");
    }
}}
$(__, v.name());
__out(" ").ln();
__out(" this.");
$(__, v.name());
__out(" = ");
$(__, v.name());
__out(";").ln();
__out(" ");
__dl();
if ($(v.isPrimitive(), or, $(v.requiresTrackIsSet(), andnot, v.jacksonAnyGetter))) {
  __dl();__ln();
  __out(" this.");
  $(__, disambiguateField, type, $(v.name(), "IsSet"));
  __out(" = true;").ln();
  __out(" ");
}
__dl();__ln();
__out(" ").ln();
__dl();__it1.index++;
  __dl();_it1.first = false;
}}}
__dl();__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
  __dl();__ln();
  __out(" public void set");
  $(__, toUpper, v.name());
  __out(" ");
  $(__, v.getWrappedFirstElementType());
  __out(" key, ");
  $(__, v.getWrappedSecondaryElementType());
  __out(" value ");
  __out(" this.");
  $(__, v.name());
  __out(" .put(key, value);");
  __out(" ");
  __dl();__it1.index++;
  __dl();_it1.first = false;
}}}
__dl();__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String signature : $in(type.getNonAttributeAbstractMethodSignatures())) {
  __dl();__ln();
  __out(" @Override");
[36x36]Open Source Used In kASA v1.1  2118

```java
$__;__ln();
$__out(" ");
$__out(" ");$__signature;
$__out(" { throw new UnsupportedOperationException(); }").ln();
$__dl();__it1.index++;
__it1.first = false;
}
$__dl();__ln();
{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getAllAccessibleAttributes()))
{
$__dl();__ln();
$__out(" ");$__dl();
if ($if(v.isGenerateDerived))
{
$__dl();__ln();
$__out(" @com.fasterxml.jackson.annotation.JsonIgnore").ln();
$__out(" ");__$v.toSignature();
$__out(" { throw new UnsupportedOperationException(); } ").ln();
$__dl();__it1.index++;
__it1.first = false;
}
$__dl();__ln();
$__out(" @Override");
$__dl();__ln();
$__out(" ");__$v.toSignature();
$__out(" { throw new UnsupportedOperationException(); } ").ln();
$__dl();__it1.index++;
__it1.first = false;
}
$__dl();__ln();
$__out(" ");__$generateJsonWithUnsupported, type);__ln();
$__out(" ").ln();
$__out("/**").ln();
$__out("/**".ln();__$javadocGenerics, type);
$__ln();
$__out(" * @param json A JSON-bindable data structure").ln();
$__out(" * @return An immutable value type").ln();
$__out(" * @deprecated Do not use this method directly, it exists only for the <em>Jackson</em>-binding infrastructure").ln();
$__out(" */").ln();
$__out("@Deprecated").ln();
$__dl();
if ($if($(classpath.available, "com.fasterxml.jackson.annotation.JsonCreator.Mode")))
{
$__dl();__ln();
```
} else {
  __dл();__ln();
  __out("@com.fasterxml.jackson.annotation.JsonCreator").ln();
}

__dл();__ln();
__out("static");
$(__, type.generics().def());
__out(" ");
$(__, type.typeImmutable().relative());
__out(" fromJson(Json");
$(__, type.generics().args());
__out(" json") ").ln();
final org.immutables.generator.Templates.Invokable cast = new
org.immutables.generator.Templates.Fragment0 {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dл();final org.immutables.generator.Templates.Invokable cast = this;
    __dл();
    if ($if($(type.constitution.returnsAbstractValueType(), or, type.getInnerBuilder().isExtending))) {
      __dл();__out("(");
      $(__, type.typeImmutable().relative());
      __out(" ");
    }
    __dл();__dл();
  }
}

if ($if(type.isUseBuilder())) {
  __dл();__ln();
  __out(" ");
  $(__, type.typeBuilder().relative());
  __out(" builder = ");
  $(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment0 {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dл();$(__, type.factoryBuilder().relative());
      __out("()";
      __dл();
    }
  });
  __out(";").ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
     __dл();__ln();
     __out(" ");
     __dл();
     if ($if($(v.requiresTrackIsSet(), or, v.isPrimitive())) {
       __dл();__ln();
     }
   }
  }
}
if (json.) {
    if (json. $v.name(). "IsSet") {
        \n    } else {
        \n    } else {
        \n    if ($v.isEncoding()) {
            \n        } else if ($v.isCollectionType()) {
            \n        } else if ($v.isMapType()) {
            \n        } else {
            \n        }\n    }\n}
```java
__.dl();__.ln();
__.out(" ");
$(_, varDecl);
__.out(" = ");
$(_, cast);
$(_, type.factoryOf().relative());
__.out("(");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
        __.dl();__.dl();
        if ($if($not, _it1.first)) {
            __.dl();__.out(" , ");
        }
        __.dl();__.out("json.");
        $(_, v.name());
        __.dl();_it1.index++;
        _it1.first = false;
    }
    __.dl();__.out(");").ln();
    __.out(" ");
} else if ($if(type.isUseSingleton())) {
    __.dl();__.ln();
    __.out(" ");
    $(_, varDecl);
    __.out(" = ");
    $(_, cast);
    $(_, type.factoryInstance().relative());
    __.out("()");).ln();
    __.out(" ");
} else {
    __.dl();__.ln();
    __.out(" ");
    $(_. output.error, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();__.out("Cannot generate JSON code when there are no builders, constructors or singletons available");
            __.dl();
        }));
    __.ln();
    __.out(" ");
}
```
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getWithSettableAfterConstruction())) {
  __.dl();___.ln();
  __.out("  ");
  __.dl();
  if ($if($(v.requiresTrackIsSet(), or, v.isPrimitive())) {
    __.dl();___.ln();
    __.out("  if (json.");
    $(__, disambiguateField, type, $(v.name(), "IsSet"));
    __.out(" ) {").ln();
    __.out("   ");
  } else {
    __.dl();___.ln();
    __.out("  if (json.");
    $(__, v.name());
    __.out(" != null ) {").ln();
    __.out("   ");
  }
  __.dl();___.ln();
  __.out("     instance = instance.");
  $(__, v.names.with);
  __.out("(json.");
  $(__, v.name());
  __.out(";").ln();
  __.out(" }").ln();
  __.out(" ");
  __.dl():_it1.index++;
  _it1.first = false;
})
  __.dl();___.ln();
  __.out("    return instance;").ln();

  }
  __.dl();___.ln();
  __.out(" } ").ln();
  __.out("   ");

  }
  __.dl();___.ln();

  }

  };

org.immutables.generator.Templates.Invokable generateAccessorMethods() { return generateAccessorMethods; }
private final org.immutables.generator.Templates.Invokable generateAccessorMethods = new FragmentDispatch(1, 44);

void _t44__generateAccessorMethods(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.isAnnotationType())) {
    __dl();
    __ln();
    __ln();
    __out("/** {@inheritDoc} */").ln();
    __out("@Override").ln();
    __out("public Class<? extends java.lang.annotation.Annotation> annotationType() {").ln();
    __out("return ");
    $(__, type.typeAbstract());
    __out(".class;").ln();
    __out(""").ln();
  }
  __dl();
  __ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     __dl();
     __ln();
     __ln();
     __out("/**").ln();
     __out(" */").ln();
     __out(" */").ln();
     __out(" */").ln();
     __dl();
     if ($if(v.docComment)) {
       __dl();
       {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final java.lang.String d : $in(v.docComment)) {
          __dl();
          __ln();
          __dl();
          __ln();
          __out(" */");
          __dl();
          __ln();
          __out(" */");
          if ($if(v.isEncoding())) {
            __dl();
            __ln();
            __ln();
            __it2.first = false;
          }
        }
      }
      __dl();
      __ln();
      __out(" ");
    } else {
      __dl();
      __ln();
      __out(" ");
      __dl();
      if ($if(v.isEncoding())) {
        __dl();
        {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        }
      }
    }
  }
}
for (final java.lang.String d : Sin.v.instantiation.exposeDoc()) {
    __.dl();__.ln();
    __.dl();__.ln();
    __.out(" *")
    __.dl();
    if ($(singular, v.instantiation.exposeDoc())) {
        __.dl();__.out(" ");
    }
    __.dl();$___.v.instantiation.filterDoc, d);
    __.ln();
    __.dl();_it2.index++;
    _it2.first = false;
} }
___.dl();___.ln();
___.out(" ");
    __.dl();___.ln();
    __.dl();
    if ($(v.isArrayType())) {
        __.dl();___.ln();
        __.out(" * @return A cloned { @code ");
        $(___.v.name());
        __.out(" } array").ln();
    } else if ($(v.isGenerateDerived)) {
        __.dl();___.ln();
        __.out(" * @return The computed-at-construction value of the { @code ");
        $(___.v.name());
        __.out(" } attribute").ln();
    } else {
        __.dl();___.ln();
        __.out(" * @return The value of the { @code ");
        $(___.v.name());
        __.out(" } attribute").ln();
    }
    __.dl();___.ln();
    ___.out(" ");
}
___.dl();___.ln();
___.out(" */");
$(__, a);
  __.ln();
  __.dl();_it2.index++;
  _it2.first = false;
}}
___.dl();___.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : Sin(v.accessorInjectedAnnotations())) {
  __.dl();$(__, anj);
  __.dl();_it2.index++;
  _it2.first = false;
}
___.dl();___.ln();
___.dl();
if ($if(v.jacksonAnyGetter)) {
  __.dl();___.out("@com.fasterxml.jackson.annotation.JsonAnyGetter");
}
___.dl();___.ln();
___.dl();
if ($if(v.jacksonValue)) {
  __.dl();___.out("@com.fasterxml.jackson.annotation.JsonValue");
}
___.dl();___.ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __.dl();___.out("@Deprecated");
  }
  ___.dl();
}
___.ln();
___.out("@Override").ln();
___.out("  ");
___.dl();
if ($if(v.isEncoding())) {
  __.dl();___.ln();
  $(__, rr.accessor(), v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$(__, disambiguateField, type, "initShim");
      __.dl();
    }});
    __.ln();
    __.out("  ");
  } else if ($if(v.isJdkOptional())) {
    __.dl();___.ln();
}
$(__, v.getAccess());
$(__, v.getType());
__out(" ");
$(__, v.names.get);
__out("() { ").ln();
__dl();
if (!$if(v.isJdkSpecializedOptional())) {
  __dl();__ln();
  __out(" return ");
  __out(" != null").ln();
  __out(" ? ");
  $(__, v.getRawType());
  __out(" .of(").ln();
  $(__, v.getRawType());
  __out(" .ofNullable(").ln();
  $(__, v.name());
  __out(" : ").ln();
  $(__, v.getRawType());
  __out(" .empty(); ").ln();
} else {
  __dl();__ln();
  __out(" return ");
  $(__, v.getRawType());
  __out(" .ofNullable(").ln();
  $(__, v.name());
  __out("; ").ln();
}
__dl();__ln();
__out(" ");
} else {
  __dl();__ln();
  $(__, v.getAccess());
  $(__, v.isNullabilityOriginal());
  $(__, immutableImplementationType, v);
  __out(" ");
  $(__, v.names.get);
  __out("() { ").ln();
  __dl();
if (!$if($type.isGenerateSafeDerived(), and, $(v.isGenerateDerived, or, v.isGenerateDefault()))) {
  __dl();__ln();
  __out(" InitShim shim = this; ");
  __out(" ; ").ln();
  __out(" ");
if ($if($isArrayType(), andnot, $isNullable())) {
  __dl();__ln();
  __out(" return shim != null").ln();
  __out("  ? shim.");
  $(__, __.names.get);
  __out("().clone()").ln();
  __out("  : this.");
  $(__, __.name());
  __out("().clone;").ln();
  __out(" ");
}

} else {
  __dl();__ln();
  __out(" return shim != null").ln();
  __out("  ? shim.");
  $(__, __.names.get);
  __out("()").ln();
  __out("  : this.");
  $(__, __.name());
  __out(";").ln();
  __out(" ");

  __dl();__ln();
} else if ($if($isArrayType())) {
  __dl();__ln();
  __out(" return ");
  $(__, valueFromValue, __, __.name());
  __out(";").ln();

} else {
  __dl();__ln();
  __out(" return ");
  $(__, __.name());
  __out(";").ln();

}

__dl();__ln();
__out(" ");
__out(" ");

__dl();__ln();
__out(" ");
__dl()__;it1.index++;__ln();
_it1.first = false;}}
if ($if(type.isGenerateOrdinalValue())) {
  __dl();__ln();
  __out("  ");
  __dl();
  if ($if(type.isGenerateOrdinalValue())) {
    __dl();__ln();
    __ln();
    __out("/** @inheritDoc */").ln();
    __out("@Override").ln();
    __out("public int ordinal() {").ln();
    __out("  return ordinal;"").ln();
    __out("}").ln();
    __out("  ");
  }
  __dl();__ln();
  __dl();
}

org.immutables.generator.Templates.Invokable generateObjectUtilityMethods() { return generateObjectUtilityMethods; }
private final org.immutables.generator.Templates.Invokable generateObjectUtilityMethods = new FragmentDispatch(1, 45);
void _t45__generateObjectUtilityMethods(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  final org.immutables.generator.Templates.Invokable equalToType = new org.immutables.generator.Templates.Invokable.equalToType = new
  org.immutables.generator.Templates.Invokable.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
      __ln();
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters = $cast(type.getEquivalenceAttributes());
      __dl();$(__, type.typeAbstract().relativeRaw());
    } else {
      __dl();$(__, type.typeImmutable().relativeRaw());
      $(__, type.generics().unknown);
    }
  }__dl();__ln();
} __dl();__ln();
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters = $cast(type.getEquivalenceAttributes());
 __dl();__ln();
 __dl();
 if ($if($not, type.isEqualToFinal)) {
  __dl();__ln();
  __dl();
}
if ($if(type.isUseReferenceEquality(), ornot, type.isEqualToDefined)) {
  __.dl();___.ln();
  __.ln();
  __.out("/**").ln();
  __.dl();
  if ($if(type.isAnnotationType())) {
    __.dl();__.ln();
    __.out(" * This instance is equal to any implementation of the { @link ");
    $(__, type.typeValue().relativeRaw());
    __.out(" } type with equal attribute values.").ln();
  } else {
    __.dl();__.ln();
    __.out(" * This instance is equal to all instances of { @code ");
    $(__, type.typeImmutable().simple());
    __.out(" } that have equal attribute values.").ln();
  }
  __.dl();__.ln();
  __.dl();
  if ($if(type.isUseReferenceEquality())) {
    __.dl();__.ln();
    __.out(" * As instances of the { @code ");
    $(__, type.typeImmutable().simple());
    __.out(" } class are interned, the { @code equals } method is implemented").ln();
    __.out(" * as an efficient reference equality check.").ln();
  }
  __.dl();__.ln();
  __.out(" * @return { @code true } if { @code this } is equal to { @code another } instance").ln();
  __.out(" */").ln();
  __.out("@Override").ln();
  __.out("public boolean equals(");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
    __.dl();
    if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
      __.dl();___.out("@javax.annotation.Nullable ");
    }
    __.dl();
    if ($if(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __.dl();___.out("@javax.annotation.Nullable ");
  }
  __.dl();
  __.out("Object another { ").ln();
  __.out(" ");
  __.dl();
  if ($if(type.isUseReferenceEquality())) {
    __.dl();___.ln();
    __.out(" return this == another;");ln();
    __.out(" ");
  }
}
} else {
  __dl();__ln();
  __out("  if (this == another) return true;").ln();
  __out("  return another instanceof ");
  $(__, equalToType);
  __ln();
  __out("    && equalTo((");
  $(__, equalToType);
  __out(") another); ").ln();
  __out("  ");
}

} __dl();__ln();
__out("  ").ln();

} __dl();__ln();

} __dl();__ln();

} __dl();__ln();

} if ($if(type.isUseEqualTo())) {
  __dl();__ln();
  __ln();
  __dl();
  if ($if($!(type.isEqualToDefined, or, $!(type.isCacheHash(), or, getters)))) {
    __dl();__ln();
    __dl();__ln();
}

} else {
  __dl();__ln();
  __out("  @SuppressWarnings("MethodCanBeStatic")").ln();
}

} __dl();__ln();
__out("private boolean equalTo(");
$(__, equalToType);
__out(" another) ").ln();
__out("  ");
__dl();

} if ($if(type.isEqualToDefined)) {
  __dl();__ln();
  __out("  return super.equals(another);");ln();
  __out("  ");
}

} else {
  __dl();__ln();
if ($if(type.isCacheHash())) {
  __.dl();___.ln();
  __.out("    ");
  __.dl();
}
if ($if(type.isAnnotationType())) {
  __.dl();___.ln();
  __.out("    if (another instanceof ");
  __(__, type.typeImmutable().relativeRaw());
  __.out(") {").ln();
  __.out("      ");
  __.dl();
  if ($if(type.isUseLazyhash())) {
    __.dl();___.out("hashCode != 0 && anotherHashCode != 0 && ");
  }
  __.dl();___.out("hashCode != anotherHashCode) return false;");.ln();
  __.out("  ");.ln();
  __.out(""");
}
else {
  __.dl();___.ln();
  __.out("    if ("");
  __.dl();
  if ($if(type.isUseLazyhash())) {
    __.dl();___.out("hashCode != 0 && another.hashCode != 0 && ");
  }
  __.dl();___.out("hashCode != another.hashCode) return false;");.ln();
  __.out("  ");.ln();
  __.out(""");
}
___.dl();___.ln();
___.out(""");
___.dl();
if ($if($not, getters)) {
  __.dl();___.out("true");
}
___.dl();[final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
  __.dl();___.dl();
  if ($if($not, _it2.first))) {
    __.dl();___.ln();
    ___.out("  && ");
  }
  __.dl();$(___.equalsAttribute, v, type.isAnnotationType());
  __.dl();_it2.index++;
  _it2.first = false;
}
___.dl();_.out(";").ln();
___.out(" ");
___.dl();___.ln();
___.out(""").ln();
}
___.dl();___.ln();
final org.immutables.generator.Templates.Invokable computeHashCodeBody = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable computeHashCodeBody = this;
    __.ln();
    final org.immutables.generator.Templates.Invokable h = new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        ___.dl();final org.immutables.generator.Templates.Invokable h = this;
        __.dl();
      }};___.dl();___.ln();
      ___.dl();
      if ($if($(type.isAnnotationType(), and, getters.isEmpty()))) {
        __.dl();___.ln();
        ___.out("return 0;").ln();
      } else if ($if(type.isAnnotationType())) {
        __.dl();___.ln();
        ___.out(" ");
        {final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
          __.dl();
          if ($if(s_atVar_1287436599, allowsClasspathAnnotation, \"com.google.errorprone.annotations.Var\")}) {
            __.dl();___.out("@com.google.errorprone.annotations.Var ");
          }
        }
      }
      __.dl();
    }
  }
}
$(_, h);
__out(" = 0;").ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
  __dl();__ln();
  __dl();
  if ($if(v.isArrayType())) {
    __dl();__ln();
    __out(" += 127 * ");
    $(_, h);
    __out(" += 127 * ");
    $(_, v.names.get);
    __out(" .hashCode() ^ java.util.Arrays.hashCode(");
    $(_, v.name());
    __out(";").ln();
  } else if ($if(v.isPrimitive())) {
    __dl();__ln();
    __out(" += 127 * ");
    $(_, h);
    __out(" += 127 * ");
    $(_, v.names.get);
    __out(" .hashCode() ^ ");
    $(_, primitiveHashCode, v);
    __out(";").ln();
  } else {
    __dl();__ln();
    __out(" += 127 * ");
    $(_, h);
    __out(" += 127 * ");
    $(_, v.names.get);
    __out(" .hashCode();").ln();
  }
  __dl();__ln();
  __dl();_it2.index++;
  _it2.first = false;
}
__dl();__ln();
__out(" return ");
$(_, h);
__out(";").ln();
} else if ($if(getters.isEmpty())) {
  __dl();__ln();
  __out(" return ");
  $(_, type.hashCode());
```java
__out(";").ln();

} else {
__dl();__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = (type);
__dl();
if ($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var")) {
__dl();__out("@com.google.errorprone.annotations.Var ");
}
__dl();
}
__out("int ");
$(__, h);
__out(" = 5381;").ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : (getters)) {
__dl();__ln();
__dl();
if ($(v.isEncoding())) {
__dl();__ln();
__out(" += (");
$__(_h);
__out(" += (");
$__(_h);
__out(" << 5) + (");
$__(_h, rr.hash(), v);
__out(");").ln();
} else if ($(v.isArrayType())) {
__dl();__ln();
__out(" ");
$__(_h);
__out(" += (");
$__(_h);
__out(" << 5) + java.util.Arrays.hashCode(");
$__(_h, v.name());
__out("="%).ln();
} else if ($(v.isNullable(), or, v.isJdkOptional())) {
__dl();__ln();
__out(" ");
$__(_h);
__out(" += (");
$__(_h);
__out(" << 5) + ");
$__(_h, objectsHashCode, type);
__out(";");
$__(_h, v.name());
```
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```java
if ($if(type.isHashCodeDefined)) {
  __out(" ");
  __out(" = (") +
  __out(" << 5) + ");
  $(__, primitiveHashCode, v);
  __out(";");
}
```

```java
if ($if(type.isUsePrehashed())) {
  __out("/**");
  __out(" * Returns the precomputed-on-construction hash code from the supertype implementation of @code super.hashCode());
  __out(" */***)");
  __out(" * @return The hashCode value");
  __out(" */"));
```
```java
@Override
public int hashCode() {
  return hashCode;
}

/**
 * Returns a constant hash code value.
 */

/**
 * Returns a precomputed-on-construction hash code from attributes:
 */

/**
 * Computes a hash code from attributes:
 */
```
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
  __.dl();___.dl();
  if ($if($not(_it2.first))) {
    __.dl();___.out(" ");
    ___.dl();___.out("{ @code ");
    __.out(a.name());
    __.out(" }");
    __.dl();_it2.index++;
    _it2.first = false;
  }
  __.dl();___.out(" ").ln();
  __.dl();___.ln();
  __.out(" * @return hashCode value ").ln();
  __.out(" */").ln();
  __.out(" @Override ").ln();
  __.out(" public int hashCode() ").ln();
  __.out(" ");
  __.dl();
  if ($if(type.isUsePrehashed())) {
    __.dl();___.ln();
    __.out(" return hashCode;");ln();
    __.out(" ");
  } else if ($if($not(getters))) {
    __.dl();___.ln();
    __.out(" return 0;");ln();
    __.out(" ");
  } else if ($if(type.isUseLazyhash())) {
    __.dl();___.ln();
    __.out(" int h = this.hashCode;");ln();
    __.out(" if (h == 0) ");ln();
    __.out(" h = ");
    __.out(disambiguateAccessor, type, "computeHashCode");
    __.out("();").ln();
    __.out(" this.hashCode = h;");ln();
    __.out(" }");ln();
    __.out(" return h;");ln();
    __.out(" ");
  } else {
    __.dl();___.ln();
    __.out(" ");
    __.out(" ");
    __.out(" ");
    __.out(" ");
  }
}"
if ($if($type.isCacheHash(), and, getters)) {
    __.dl();__.ln();
    __.ln();
    __.out("private int ");
    $__().disambiguateAccessor.type("computeHashCode");
    __.ln();
    $__().computeHashCodeBody();
    __.ln();
    __.out("}").ln();
    __.out(" ");

    __.dl();__.ln();
}

___.dl();__.ln();
___.dl();_it1.index++;
_it1.first = false;
}
___.dl();__.ln();
$__().generateToString();
___.ln();
___.dl();
org.immutables.generator.Templates.Invokable generateToString() { return generateToString; }
private final org.immutables.generator.Templates.Invokable generateToString = new FragmentDispatch(1, 46);
void _t46__generateToString(org.immutables.generator.Templates.Invokation __) {
    ___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    ___.ln();
    ___.dl();
    if ($if(!$type.isToStringDefined())) {
        ___.dl();__.ln();
        ___.ln();
        ___.out("/**").ln();
        ___.out(" * Prints the immutable value {@code ");
        $__().type.name());
        ___.out("}");
        ___.dl();
        if ($if(type.getEquivalenceAttributes())) {
            ___.dl();__.out(" with attribute values");
        }
    }
}
```java
__dl();__out(".*").ln();
__out(" * @return A string representation of the value").ln();
__out(" */").ln();
__out("@Override").ln();
__out("public String toString ()").ln();
__dl();
if ($if($not(type.getEquivalenceAttributes()))) {
  __dl();__ln();
  __out(" ");
  __dl();
if ($if(type.isAnnotationType())) {
    __dl();__ln();
    __out(" return \@");
    $__(); type.name();
    __out(";").ln();
    __out(" ");
  } else {
    __dl();__ln();
    __out(" return \"");
    $__(); type.name();
    __out(";").ln();
    __out(" ");
  }
} else if ($if(type.isGenerateJdkOnly())) {
  __dl();__ln();
  __out(" return \"");
  $__(); type.name();
  __out(" \;").ln();
  __out(" ");
} else if ($if(type.hasOptionalAttributes())) {
  __dl();__ln();
  __out(" ");
  $__(); flag.set();
  __dl();__ln();
  __out(" java.lang.StringBuilder builder = new java.lang.StringBuilder(");
  __dl();
if ($if(type.isAnnotationType())) {
  __dl();__out("\n @");
  $__(); type.name();
  __out("\n");
} else {
  __dl();__out("\n");
  $__(); type.name();
  __out("\n");
}
```
final org.immutables.generator.Templates.Invokable startLen = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
        __dl();
        final org.immutables.generator.Templates.Invokable startLen = this;
        __dl();
        final org.immutables.generator.Templates.Invokable startLen = this;
        if ($if(type.isAnnotationType())) {
            __dl();
            __out("@");
            __dl();
            __out("(");
        } else {
            __dl();
            __out("[");
            __dl();
            __out(" ");
        }
        __dl();
        __dl();
    }
}

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getEquivalenceAttributes())) {
    __dl();
    __out(" ");
    __dl();
    if ($if(v.isRedactedCompletely())) {
        __dl();
        __out(" ");
    } else if ($if(v.isEncoding())) {
        __dl();
        __out(" ");
        __dl();
    } else if ($if($not, _it1.first)) {
        __dl();
        if ($if(flag.is)) {
            __dl();
            __out("if (builder.length() > ");
            __dl();
            __out("(");
            __dl();
            __out(" ");
            __dl();
            __out("builder.append\(\", ");
        }
    } else {
        __dl();
        __out("builder.append\(\", ");
    }
    __dl();
    __dl();
}
__ln();
__out(" builder.append(\"\n");
$(__, v.names.raw);
__out("=\") .append(";
});__ln();

{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
 final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragm...
java.util.Arrays.toString("$(__, v.name());
    __out(""");
    __dl();
);__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$__(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();$__(__, value_maybeMasked_1900495401);
}
__dl();
__out(";").ln();
__out(" ");
} else if ($if($(v.isJdkOptional(), or, v.isNullable())) {
    __dl();__ln();
    __out(" if ");
    $__(__, v.name());
    __out(" !=").ln();
    __out(" ");
    __dl();
    if ($if($(not, _it1.first))) {
        __dl();__dl();
        if ($if(flag.is)) {
            if (builder.length() > ")
                $__(__, startLen);
            __out(" ");
        }
    __dl();__out("builder.append(" ");
}
__dl();__out("builder.append(", ");
}
__dl();__ln();
__out(" builder.append("";
$(__, v.names.raw);
__out("=").append(";
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        $__(__, v.name());
        __dl();
    });__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$__(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
}
} else {
    __.dl();$(__, value_maybeMasked_1900495401);
}

} else if ($if(v.isOptionalType())) {
    __.dl();___.ln();
    __.out(" if ");
$_v$.name();
___.out(".");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
    __.dl();
    if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
        a_optionalPresent_767352996.isJavaslangOptional()))) {
        __.dl();___.out("isDefined");
    }
} else {
    __.dl();___.out("isPresent");
}

    __.dl();___.out("()");
}

} else if ($if($(not, _it1.first))) {
___.dl();___.ln();
___.out(" if ");
$___.out("if (builder.length() > ");
$(___, startLen);
___.out(" )");

} __.dl();___.out("builder.append("),");
}

} __.dl();___.ln();
___.out(" builder.append(", ")");
$_v$.names.raw();
___.out("="),append(");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new

org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
    $(__, v.name());
    __out(".");
    $(__, optionalGet, v);
    __dl();
  } __dl();

  if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
  } else {
    __dl();$(__, value_maybeMasked_1900495401);
    __dl();
    __out(".");ln();
    __out("  }");ln();
    __out(" ");
  } __dl();

} else {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if($(not, _it1.first))) {
    __dl();__dl();
    if ($if(flag.is)) {
      __dl();__out("if (builder.length() > ");
      $(__, startLen);
      __out(" )");
    }
    __dl();__out("builder.append\\n,\\n")
  }
  __dl();__out("builder.append(\\" ,\\")

} __dl();$(__, flag.clear());
__ln();
__out(" builder.append(\\"\n")
$(__, v.names.raw);
__out("="\\n).append("");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
    $(__, v.name());
    __dl();
}
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();$(__, value_maybeMasked_1900495401);
}

__dl();
__out("; ");ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl();__it1.index++;
__it1.first = false;
}
__dl();__ln();
__out(" return builder.append(");
__dl();
if ($if(type.isAnnotationType())) {
    __dl();__out("\"");
} else {
    __dl();__out("\"");
}
__dl();__out(").toString();

} else {
__dl();
__out(" ");

} else {
    __dl();
    __out(" return ");
    __dl();
    if ($if(type.isAnnotationType())) {
        __dl();__out("\n\n");
        $(__, type.name());
        __out("\"");
    } else {
        __dl();__out("\n");
        $(__, type.name());
        __out("\"");
    }
}

__dl();__ln();
__out("    ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getEquivalenceAttributes())) {
    __dl();__ln();
    __out("      ");
    __dl();
    if ($if(v.isRedactedCompletely())) {
        __dl();__dl();__ln();
        __out("      ");
    } else if ($if(v.isArrayType())) {
        __dl();__ln();
        __out("      + ");
    } else if ($if(!($not, _it1.first))) {
    }
    __dl();$(__, v.names.raw);
    __out("=" + "");
}

final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        __out("java.util.Arrays.toString(");
        $(__., v.name());
        __out(""");
        __dl();
    }
);__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$(__., literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();$(__., value_maybeMasked_1900495401);
}


__dl();
}__out("").ln();
__out(" ");
} else if ($if(v.isJdkOptional())) {
__dl();__ln();
__out(" .add("");
$(__, v.names.raw);
__out(" ", "");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
 final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
 org.immutables.generator.Templates.Fragment(0) {
 @Override public void run(org.immutables.generator.Templates.Invocation __) {
 __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
 $(__, v.name());
 __dl();
 });__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
 __dl();$__ literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
 __dl();$(__, value_maybeMasked_1900495401);

 __dl();
}__out("").ln();
__out(" ");
} else if ($if(v.isGuavaOptional())) {
__dl();__ln();
__out(" .add("");
$(__, v.names.raw);
__out(" ", "");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
 final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
 org.immutables.generator.Templates.Fragment(0) {
 @Override public void run(org.immutables.generator.Templates.Invocation __) {
 __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
 $(__, v.name());
 __out(" .orNull()");
 __dl();
 });__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
 __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
 __dl();$(__, value_maybeMasked_1900495401);
if ($if(v.isOptionalType())) {
    __dl();
    __out("\n");
    $(__, v.names.raw);
    __out(" ','");
    final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
            $(__, v.name());
            __out("\n");
            $(__, optionalPresent, v);
            __out(" ?\n");
            $(__, v.name());
            __out("\n");
            $(__, optionalGet, v);
            __out(" : null\n");
            __dl();
        }
    };__dl();__dl();
    if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
        __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        __dl();$(__, value_maybeMasked_1900495401);
    }
    __dl();
} else {
    __dl();__ln();
    __out("\n");
}

if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();__ln();
    __out("\n");
}
if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
}

if ($if($(a.isGenerateDerived, andnot, type.isGenerateSafeDerived()))) {
  __.dl();__.ln();
  __.out("this.");
  $(__, a.name());
  __.out(" = ");
  $(__, valueFromValue, a, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$(__, invokeSuper, a);
      __.out(".");
      $(__, a.names.get);
      __.out("()");
      __.dl();
    }
  });
  __.out(";").ln();
  __.out(" ");
}

___.dl();___.ln();
___.out(" ");
} else if ($if(a.isEncoding())) {
  __.dl();___.ln();
  __.out(" ");
  ___.dl();___.ln();
  ___.dl();___.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {

    ___.dl();___.ln();
    ___.dl();_it1.index++;
    _it1.first = false;
  }
  ___.dl();___.ln();
  ___.dl();___.ln();
  ___.dl();
}

if ($if(type.isGenerateSafeDerived())) {
  __.dl();___.ln();
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable shim = this;
    $(__, disambiguateField, type, "initShim");
    __.dl();
  }
  ___.dl();___.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {

if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
}

if ($if(a.isEncoding())) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();__.ln();
  __.out(" ");
} else if ($if($(a, notin, constructorArgs))) {
  __.dl();__.ln();
  __.out("this.");
  __.dl();__.ln();
  __.out(" = ");
  __.dl();__.ln();
  __.out(".");
  __.dl();__.ln();
  __.out(".");
  __.out(" ");
  __.dl();__.ln();
  __.dl();_it1.index++;
  _it1.first = false;
}]
__._dl();__.ln();
}

org.immutables.generator.Templates.Invokable generateAfterConstruction() { return generateAfterConstruction; }
private final org.immutables.generator.Templates.Invokable generateAfterConstruction = new FragmentDispatch(2, 48);
void _t48__generateAfterConstruction(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean usingBuilder = $if(__.param(1));
  __.ln();
  __.out(" ");
  __.dl();
  if ($if(type.isUsePrehashed())) {
    __.dl();___.ln();
    __.out("this.hashCode = ");
    __.dl();
  } else if ($if(type.isHashCodeDefined)) {
    __.dl();___.out("super.hashCode()");
    __.dl();
  } else if ($if($(type, notin, constructorArgs))) {
    __.dl();___.out("this.");
    __.dl();___.out(" :");
    __.dl();___.out(".");
  }
} else {
    ____dl();$.(_._, disambiguateAccessor, type, "computeHashCode");
    ____out("()");

    }
    ____dl();____out(";").ln();
    ____out(" ");

} ____dl();____ln();
____out(" ");
____dl();

if (type.isGenerateOrdinalValue()) {
    ____dl();____dl();____ln();
    ____out("this.ordinal = 0;".).ln();
    ____out(" ");
    ____dl();
    if (usingBuilder) {
        ____dl();____ln();
        ____out("this.domain = builder.domain;".).ln();
        ____out(" ");
    } else {
        ____dl();____ln();
        ____dl();____ln();
        ____out("this.domain = Domain.get();".).ln();
        ____out(" ");
    }
    } else {
    ____dl();____ln();
    ____dl();____ln();
    ____out(" ");

    } ____dl();____ln();
    ____out(" ");

} ____dl();____ln();
____out(" ");
____dl();

if (type.isGenerateSafeDerived()) {
    ____dl();____ln();
    ____out("this.");
    $.(__._, disambiguateField, type, "initShim");
    ____out(" = null;".).ln();
    ____out(" ");

    } ____dl();____ln();
    ____dl();
};
org.immutables.generator.Templates.Invokable generateReturnCopy() { return generateReturnCopy; }
private final org.immutables.generator.Templates.Invokable generateReturnCopy = new FragmentDispatch(3, 49);
void _t49__generateReturnCopy(org.immutables.generator.Templates.Invokation _) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
final java.lang.String expression = __.param(2).toString();
$(__, generateReturnCopyRaw, type, modified.name(), expression);
    __.dl();
}

org.immutables.generator.Templates.Invokable generateReturnCopyRaw() { return generateReturnCopyRaw; }
private final org.immutables.generator.Templates.Invokable generateReturnCopyRaw = new FragmentDispatch(3, 50);
void _t50__generateReturnCopyRaw(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final java.lang.String modified = __.param(1).toString();
final java.lang.String expression = __.param(2).toString();
    __.ln();
    __.out("return ");
    $(final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
        __.out("new ");
        $(__.type.typeImmutable().relativeRaw());
        $(__.type.generics().diamond());
        __.out("(");
        $(__.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();___.ln();
                __.out(" ");
                __.dl();
                if ($if(type.isSynthCopyConstructor())) {
                    __.dl();___.out("this.");ln();
                    __.out(" ");
                }
            }
        __.dl();}(final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
            if ($if($(not, a.isGenerateDerived))) {
                __.dl();___.dl();
                if ($if($(not, _it1.first))) {
                    __.dl();___.out(",");ln();
                    __.out(" ");
                }
            }
        }
    }
}
org.immutables.generator.Templates.Invokable generateReturnCopyContextual() { return
}

if ($if($(a.name(), eq, modified))) {
    $(__, expression);
} else {
    $(__, expression);
    if ($if(a.hasVirtualImpl())) {
        $(__, a.names.get);
        $out("()");
    } else {
        $(__, a.name());
    }
    $out(".");
    _it1.index++;
    _it1.first = false;
}

if ($if(type_validated_1881291508.isUseValidation())) {
    if ($if(qualified_validated_1881291508)) {
        $(__, type_validated_1881291508.typeImmutable().relativeRaw());
        $out(".");
    }
    $out("validate(");
    $out(expression_validated_1881291508);
    $out(")");
} else {
    $(__, expression_validated_1881291508);
}

out(";"); ln();
private final org.immutables.generator.Templates.Invokable generateReturnCopyContextual = new FragmentDispatch(2, 51);

void _t51__generateReturnCopyContextual(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
    __.ln();
    {final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
     final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(modified);
     final java.lang.String expression_generateReturnCopy_879511243 = $cast("newValue");
     $(__.generateReturnCopyRaw, type_generateReturnCopy_879511243, modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
    }
    __.ln();
    __.dl();
};

org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed() { return generateReturnBuilderConstructed; }

private final org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed = new FragmentDispatch(1, 52);

void _t52__generateReturnBuilderConstructed(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.out("return ");
    {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
     final java.lang.Boolean qualified_validated_1881291508 = $cast($$true);
     final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
         @Override public void run(org.immutables.generator.Templates.Invocation __) {
             __.dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
             __.out("new ");
             $(__.type.typeImmutable().relativeRaw());
             $(__.type.generics().diamond());
             __.out("(");
             $(__.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
                 @Override public void run(org.immutables.generator.Templates.Invocation __) {
                     __.dl();___.ln();
                     __.out(" ");
                     __.dl();
                     if ($if(type.isSynthCopyConstructor())) {
                         __.dl();___.out("null,").ln();
                         __.out(" ");
                     }
                 }
             })
             __.dl();
         }
     }
     __.out("return ");
     {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
      final java.lang.Boolean qualified_validated_1881291508 = $cast($$true);
      final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
          @Override public void run(org.immutables.generator.Templates.Invocation __) {
              __.dl();___.ln();
              __.out(" ");
              __.dl();
              if ($if(type.isSynthCopyConstructor())) {
                  __.dl();___.out("null,").ln();
                  __.out(" ");
              }
          }
      }
      __.out("return ");
      {final org.immutables.generator.Templates.Iteration _it1 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
    if ($if($not, v.isGenerateDerived)) {
        __.dl();
        if ($if($not, _it1.first)) {
            __.dl();
            __.out(".");___.ln();
            __.out("  ");
            __.dl();
            $___.valueFromBuilder(v, "");
        } else {
            __.dl();
            __.out(".");
            __.dl();
        }
    }
    __.dl();$(__, valueFromBuilder, v, "");
    __.dl();_it1.index++;
    _it1.first = false;
}}
___.dl();___.dl();___.out(")
___.dl();
}}
if ($if(type_validated_1881291508.isUseValidation())) {
    __.dl();
    if ($if(qualified_validated_1881291508)) {
        __.dl();$(__, type_validated_1881291508.typeImmutable().relativeRaw());
        __.out(".");
    }
    __.dl();
    __.out("validate(");
    $(__, expression_validated_1881291508);
    __.out(")");
} else {
    __.dl();$(__, expression_validated_1881291508);
}
___.dl();
}
___.out(";"),ln();
___.dl();
//
org.immutables.generator.Templates.Invokable generateCopyMethods() { return generateCopyMethods; }
private final org.immutables.generator.Templates.Invokable generateCopyMethods = new FragmentDispatch(1, 53);
void _t53__generateCopyMethods(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.dl();
    if ($if(type.isUseCopyMethods())) {
        __.dl();
        __.ln();
        __.out(" ");
    //

{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __dl();__ln();
    __out("    ");
    __dl();
    if ($if(v.isEncoding())) {
        __dl();__ln();
        $___.rr.copyMethods(), v, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();__ln();
                $(__, generateReturnCopyContextual, type, v);
                __ln();
                __dl();
            });
            __ln();
            __out("  ");
        });
        __ln();
        __out("/**").ln();
        __out(" * Copy the current immutable object with elements that replace the content of ");
        {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
            $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
        }
        __out(".*").ln();
        __out(" * The array is cloned before being saved as attribute values.").ln();
        __out(" * @param elements The non-null elements for ");
        $(__, v.name());
        __ln();
        __out(" * @return A modified copy of { @code this} object").ln();
        __out(" */").ln();
        {final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
            __dl();
            if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or,
                a_varargsSafety_1368213209.hasTypeVariables())) {
                __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
            }
            __dl();
            __ln();
        }
        {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
            __dl();
            if ($if(a_deprecation_286924011.deprecated)) {
                __dl();__out("@Deprecated");
            }
            __dl();
            __ln();
        }
    } else if ($if(v.isArrayType())) {
        __dl();__ln();
        __ln();
        __out("/**").ln();
        __out(" * Copy the current immutable object with elements that replace the content of ");
        {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
            $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
        }
        __out(".*").ln();
        __out(" * The array is cloned before being saved as attribute values.").ln();
        __out(" * @param elements The non-null elements for ");
        $(__, v.name());
        __ln();
        __out(" * @return A modified copy of { @code this} object").ln();
        __out(" */").ln();
        {final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
            __dl();
            if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or,
                a_varargsSafety_1368213209.hasTypeVariables())) {
                __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
            }
            __dl();
            __ln();
        }
        {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
            __dl();
            if ($if(a_deprecation_286924011.deprecated)) {
                __dl();__out("@Deprecated");
            }
            __dl();
            __ln();
        }
    }
}
__dl();
__ln();
__out("public final ");
$___.type.typeImmutable().relative();
__out(" ");
$___.v.names.with();
__out("(");
$___.v.isNullability();
$___.v.getElementType();
__out("... elements")}.${ln();
__out(" ");
$___.v.isNullabilityLocal();
$___.immutableImplementationType, v);
__out(" newValue = ");
__dl();
if ($if(v.isNullabable())
__dl();__out("elements == null ? null : ");
}
__dl();__out("elements.clone();").ln();
__out(" ");
$___.generateReturnCopyContextual, type, v);
__ln();
__out(" ").ln();
__out(" ");
} else if ($if(v.isCollectionType())
__dl();__ln();
__ln();
__out("/#*").ln();
__out(" * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(".").ln();
__out(" * @param elements The elements to set".).ln();
__out(" * @return A modified copy of [ @code this ] object".).ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if(a_varargsSafety_1368213209.isNullable(), or,
a_varargsSafety_1368213209.hasTypeVariables))
__dl();__out("@SafeVararg @SuppressWarnings("varargs")");
}
__dl();
```java
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if ($if(a_deprecation_286924011.deprecated)) {
        __dl();__out("@Deprecated");
    }
    __dl();
}__ln();
__out("public final ");
$___.type.typeImmutable().relative();
__out(" ");
$___.v.names.with();
__out(" ");
$___.v.atNullability();
$___.v.getUnwrappedElementType();
__out("... elements {".ln();
__out(" ");
__dl();
if ($if(v.isNullable())) {
    __dl();__ln();
    __out(" if (elements == null) {".ln();
    __out(" ");
    {final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
        final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 =
        $cast(v);
        final java.lang.String expression_generateReturnCopy_879511243 = $cast("null");
        $___.generateReturnCopyRaw, type_generateReturnCopy_879511243,
        modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
    }
    __ln();
    __out(" }".ln();
    __out(" ");
}__dl();__ln();
__out(" ");
__dl();
if ($if($v.isGenerateJdkOnly(), and, v.isPrimitiveElement())()) {
    __dl();__ln();
    __out(" java.util.ArrayList<");
    $(___.v.getWrappedElementType());
    __out(">
    wrappedList = new java.util.ArrayList<");
    $(___.asDiamond, v.getWrappedElementType());
    __out("(elements.length);".ln();
    __out(" for (";)
```
$(__, v.getUnwrappedElementType());
__.out(" element : elements ").ln();
__.out(" wrappedList.add(element);" ).ln();
__.out(" } ").ln();
__.out(" ");
$(__, immutableImplementationType, v);
__.out(" newValue = ");
$(__, immutableCollectionCopyOfSafe, v, $$false, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl(); __.out("wrappedList");
  __.dl();
} });
__.out("; ").ln();
__.out(" ");
} else {
  __.dl(); __.ln();
  __.out(" ");
$(__, v.atNullabilityLocal());
$(__, immutableImplementationType, v);
__.out(" newValue = ");
$(__, valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  if ($if(v.wrapArrayToIterable())) {
    __.dl(); $(__, arrayAsList, v, "elements");
  } else {
    __.dl(); __.out("elements");
  }
  __.dl();
} });
__.out("; ").ln();
__.out(" ");
}
___.dl(); ___.ln();
___.out(" ");
$(__, generateReturnCopyContextual, type, v);
___.ln();
___.out(" ").ln();
___.ln();
___.out("/** ");
___.out(" * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
$(___.generateReturnCopyContextual, type, v);
___.ln();
___.out("}").ln();
___.out(""");
} else if ($if(v.isOptionalType())) {
___.dl();___.ln();
___.ln();
___.out("/**").ln();
___.out("* Copy the current immutable object by setting a <i>present</i> value for the optional ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

}
___.out(" attribute.").ln();
___.out(" * @param value The value for ");
$(___.v.name());
___.dl();
if ($if(v.isOptionalAcceptNullable())) {
___.dl();___.out(" [, @code null] is accepted as @code ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$(___.a_optionalEmpty_1867206284.getRawType());
___.dl();
___.out(".");
___.dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
___.dl();___.out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or, a_optionalEmpty_1867206284.isJavaslangOptional())) {
___.dl();___.out("none");
}
} else {
___.dl();___.out("absent");
}
___.dl();___.out("()");
}
___.out("}"");
}
___.ln();
___.out("* @return A modified copy of [ @code this ] object").ln();
___.out("*").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
___.dl();___.out("@Deprecated");
}
if (Slf(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __dl();__out("immutableCopyOf(");
  $(__, expression_maybeCopyOf_1779456614);
  __out(")");
} else {
  __dl();$(__, expression_maybeCopyOf_1779456614);
}

__dl();
}
__out(";").ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl();
if (Slf(Slf(v.hasSimpleScalarElementType(), andnot, v.isEnumType()))) {
  __dl();__ln();
  __out(" if ("");
  $(__, objectsEqual, type);
  __out("(this.");
  $(__, v.name());
  __out("= newValue) return this;"),ln();
  __out(" ");
}
else {
  __dl();__ln();
  __out(" if (this.");
  $(__, v.name());
  __out(" == newValue) return this;"),ln();
  __out(" ");
}
__dl();__ln();
__out(" ");
$(__, generateReturnCopyContextual, type, v);
__ln();

} else {
  __dl();__ln();
  __out(" ");
  $(__, immutableImplementationType, v);
  __out(" newValue = ");
{
  final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
  __out(".");
  __dil();
  if ($if($not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
    __dil();
    if ($if($a_optionalOf_332927268.isFugueOptional(), or, $a_optionalOf_332927268.isJavaslangOptional())) {
      __dil();
      __out("some");
    } else {
      __dil();
      __out("of");
    }
  } else if ($if($a_optionalOf_332927268.isJdkOptional())) {
    __dil();
    __out("ofNullable");
  } else if ($if($a_optionalOf_332927268.isFugueOptional())) {
    __dil();
    __out("option");
  } else if ($if($a_optionalOf_332927268.isJavaslangOptional())) {
    __dil();
    __out("of");
  } else {
    __dil();
    __out("fromNullable");
  }
  __dil();
}
__out(";");
{
  final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
  org.immutables.generator.Templates.Invokable(expression_maybeCopyOf_1779456614 = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dil();
      final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
      __out("value");
      __dil();
    }
  });
  if ($if($v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
    __dil();
    __out("immutableCopyOf(");
    $(__, expression_maybeCopyOf_1779456614);
    __out(")");
  } else {
    __dil();
    $(__, expression_maybeCopyOf_1779456614);
  }
  __dil();
  __out(")");
}
if (Slf(${v.hasSimpleScalarElementType()}, andnot, ${v.isEnumType()})) {
  __dl(); __ln();
  __out(" ");
  __dl();
  if (${type.isGeneratePrivateNoargConstructor()}) {
    __dl(); __ln();
    __out(" if (");
    __out(${objectsEqual}, type);
    __out("(this.");
    __out(${v.name()});
    __out(" , newValue)) return this;"); __ln();
    __out(" ");
  } else {
    __dl(); __ln();
    __out(" if (this.");
    __out(${v.name()});
    __out("equals(newValue)) return this;"); __ln();
    __out(" ");
  }
  __dl(); __ln();
  __out(" ");
}
else {
  __dl(); __ln();
  __out(" if (this.");
  __out(${v.name()});
  __out(" ");
  final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = __cast(${v});
  __dl();
  if (Slf(${a_optionalPresent_767352996.isFugueOptional(), or, a_optionalPresent_767352996.isJavaslangOptional()})) {
    __dl(); __out("isDefined");
  } else {
    __dl(); __out("isPresent");
  }
  __dl(); __out("(");
  __out(" && this.");
  __out(${v.name()});
  __out(" ");
  final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = __cast(${v});
```java
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
  __.dl();__.out("getAs");
  __.dl();__.out("getAs");
} else {
  __.dl();__.out("get");

  __.dl();__.out("()");
}

__.out("== value) return this;").ln();
__.out(" get");

}.ln();
$.(__, generateReturnCopyContextual, type, v);
_.ln();

}.ln();
__.out(""").ln();
__.ln();
__.out("/**").ln();
$.(__, generateReturnCopyContextual, type, v);
_.ln();

}.ln();
__.out("*/").ln();
__.out(" Copy the current immutable object by setting an optional value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

}.ln();
__.out("attribute.").ln();
__.dl();
if ($if($v.isJdkOptional(), and, v.hasSimpleScalarElementType())) {
  __.dl();__.ln();
  __.out(" * An equality check is used on inner nullable value to prevent copying of the same value by returning
  	[@code this].").ln();
} else if ($if(v.isJdkOptional()) {
  __.dl();__.ln();
  __.out(" * A shallow reference equality check is used on unboxed optional value to prevent copying of the same
  	value by returning [ @code this ].").ln();
} else if ($if(v.hasSimpleScalarElementType()) {
  __.dl();__.ln();
  __.out(" * An equality check is used to prevent copying of the same value by returning [ @code this ].").ln();
} else {
  __.dl();__.ln();
  __.out(" * A shallow reference equality check on the optional value is used to prevent copying of the same
```
value by returning { @code this }.ln();

}___.dl();___.ln();___out(" * @param optional A value for ");__$(_, v.name());___.ln();___out(" * @return A modified copy of { @code this } object").ln();___out(" */").ln();__$(_, suppressCovariantCastForOptional, v);___.ln();{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);___.dl();if ($if(a_deprecation_286924011.deprecated)) {
  ___dl();___out("@Deprecated");
}
___dl();
___.ln();___out("public final ");__$(_, type.typeImmutable().relative());___out(" ");__$(_, v.names.with);___out("(");__$(_, v.getRawType());___dl();if ($if($not, v.isJdkSpecializedOptional())) {
  ___dl();___out("<");__$(_, v.getConsumedElementType());___out(">");
}
___dl();___out(" optional ")
___out(" ");__$(_, immutableImplementationType, v);___out(" value = ");__$(_, valueFromValue, v, "optional");___out(";").ln();___dl();if ($if(v.isJdkOptional())) {
  ___dl();___ln();___out(" ");___dl();if ($if(v.hasSimpleScalarElementType())) {
    ___dl();___ln();___out(" if (");$(_, objectsEqual, type);}
__.out("(this.");
$(__, v.name());
__.out("", value)) return this;").ln();
__.out(" ");

}) else {
  __.dl();__.ln();
  __.out(" if (this.");
$(__, v.name());
  __.out(" == value) return this;").ln();
  __.out(" ");
}
___.dl();___.ln();

}) else {
  __.dl();___.ln();
  _.out(" ");
  ___.dl();
  if ($if(v.hasSimpleScalarElementType())) {
    __.dl();___.ln();
    __.out(" ");
    ___.dl();
    if ($if(type.isGeneratePrivateNoargConstructor())) {
      __.dl();___.ln();
      __.out(" if (";
      $(__, objectsEqual, type);
      __.out("(this.");
      $(__, v.name());
      __.out(". equals(value)) return this;").ln();
      __.out(" ");
    }
  }
  ___.dl();___.ln();
  __.out(" ");
}
___.dl();___.ln();
___.out(" ");

}) else {
  __.dl();___.ln();
  __.out(" if (!this.");
$(__, v.name());
  __.out(".equals(value)) return this;").ln();
  __.out(" ");
}
___.dl();___.ln();
___.out(" ");

}) else {
  __.dl();___.ln();
  __.out(" if (!this.");
$(__, v.name());
  __.out(".");

}
final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
  __dl();__out("isDefined");
}
else {
  __dl();__out("isPresent");
}
__dl();__out("()");
__out(" && !value.");
final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
  __dl();__out("isDefined");
}
else {
  __dl();__out("isPresent");
}
__dl();__out("()");
__out(") return this;").ln();
__out(" if (this.");
$___.v.name());
__out(".");
final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
  __dl();__out("isDefined");
}
else {
  __dl();__out("isPresent");
}
__dl();__out("()");
__out(" && value.");
final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()) {  
  _.dl();_.out("isDefined");

} else {
  _.dl();_.out("isPresent");

}  
  _.dl();_.out("()");

}  
  _.out(" & this.");  
$(_. v.name());
  _.out("");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
  _.dl();  
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
  _.dl();_.out("getAs");
$(_. toUpper, a_optionalGet_1683307643.getElementType());

} else {
  _.dl();_.out("get");

}  
  _.dl();_.out("()");

}  
  _.out(" == value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
  _.dl();  
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
  _.dl();_.out("getAs");
$(_. toUpper, a_optionalGet_1683307643.getElementType());

} else {
  _.dl();_.out("get");

}  
  _.dl();_.out("()");

}  
  _.out(" return this;").ln();
  _.out(" ");

}  
  _.dl();_.ln();

}  
  _.dl();_.ln();
```java
__out(" ");
{final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
 final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);
 final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");
 $(__, generateReturnCopyRaw, type_generateReturnCopy_879511243,
 modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
}
__ln();
__out(""").ln();
__out(" ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 final java.lang.String gE = $cast(v.getConsumedElementType());
 final java.lang.String uK = $cast(v.getUnwrappedElementType());
 final java.lang.String wK = $cast(v.getWrappedElementType());
 final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
 final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
 __dl();__ln();
 __ln();
 __out("/**").ln();
 __out(" * Copy the current immutable object by replacing the ");
{final org.immutables.valueprocessor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
 $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map with the specified map.").ln();
__out(" * Nulls are not permitted as keys or values.").ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning
 {@code this}").ln();
 __out(" * @param entries The entries to be added to the ");
$(__, v.name());
__out(" map").ln();
__out(" * @return A modified copy of { @code this } object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
 __dl();
 if ($if(a_deprecation_286924011.deprecated)) {
 __dl();__out("@Deprecated");

 }
__dl();
}
__ln();
__out("public final ");
````
$__out("\n");
$__out(" ");
$__out("\n");
$__out("(");
$__dl();
if ($if(v.isMultimapType())) {
  $__dl();$__guava;
  $__out(".collect.Multimap");
} else {
  $__dl();$__out("java.util.Map");
}
$__dl();$__out("<");
$__gE;
$__out("\n");
$__wV;
$__out("\n");
$__out(" \n");
$__out("\n");
$__immutables괴processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
__out("attribute.").ln();
__out(" ");
__dl();
if ($if($(v.isPrimitive(), and, v.isFloatType()))) {
    __dl();__ln();
    __out(" * A value strict bits equality used to prevent copying of the same value by returning { @code this }. ").ln();
    __out(" ");
} else if ($if($(v.isPrimitive(), or, v.isEnumType()))) {
    __dl();__ln();
    __out(" * A value equality check is used to prevent copying of the same value by returning { @code this }. ").ln();
    __out(" ");
} else if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
    __dl();__ln();
    __out(" * An equals check used to prevent copying of the same value by returning { @code this }. ").ln();
    __out(" ");
} else {
    __dl();__ln();
    __out(" * A shallow reference equality check is used to prevent copying of the same value by returning { @code this }. ").ln();
    __out(" ");
}

__dl();__ln();
__out(" @param value A new value for ");
$__ v.name());
__dl();
if ($if(v.isNullable())) {
    __dl();__out(" (can be { @code null })");
}

__dl();__ln();
__out(" @return A modified copy of the { @code this } object").ln();
__out(" * ").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out(" @Deprecated");
}

__dl();
__out(" ");
$__ type.typeImmutable().relative());
$(\_, v.names.with);
__out("(");
$(\_, v.atNullability());
$(\_, v.getType());
__out(" value) {").ln();
__out(" ");
__dl();
if (If(v.isFloat())) {
  __dl();__ln();
  __out(" if (Float.floatToIntBits(this.");
  $(\_, v.name());
  __out(") == Float.floatToIntBits(value)) return this;").ln();
  __out(" ");
} else if (If(v.isDouble())) {
  __dl();__ln();
  __out(" if (Double.doubleToLongBits(this.");
  $(\_, v.name());
  __out(") == Double.doubleToLongBits(value)) return this;").ln();
  __out(" ");
} else if (If($(v.isPrimitive(), or, v.isEnumType()))) {
  __dl();__ln();
  __out(" if (this.");
  $(\_, v.name());
  __out(" == value) return this;").ln();
  __out(" ");
} else if (If($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
  __dl();__ln();
  __out(" ");
  __dl();__ln();
  __out(" ");
} else {
  __dl();__ln();
  __out(" if (this.");
  $(\_, v.name());
  __out(" == value) return this;").ln();
  __out(" ");
}

__dl();__ln();
__out(" ");
__dl();
if (If($v.attributeValueType, and, v.typeKind().isRegular())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if (If(v.isAttributeBuilder())) {
    __dl();__ln();
  }
}
public void run(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
  __out("value");
  __dl();
}

if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance()) {
  __dl();
  __out(".");
  $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
  __out("()");
}

} else {
  __dl();
  $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
  __out("(");
  $(__, expression_valueToBuilder_1442539515);
  __out("\n");
}

__dl();
__out(".");
$(__, v.getAttributeBuilderDescriptor().getBuildMethod());
__out("\n");
__dl();
__out(" ");
$(__, v.getAttributeBuilderDescriptor());
$(__, immutableImplementationType, v);
__out(" new\n");
$(__, valueFromValue, v, "value");
__out("\n");
__dl();
__out(" ");
$(__, generateReturnCopyContextual, type, v);
__ln();
__out("   ");
} else if ($if(v.isPrimitive())) {
   __dl();__ln();
   __out("   ");
   {final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
   final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 =
   $cast(v);
   final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");
   $(_<-, generateReturnCopyRaw, type_generateReturnCopy_879511243,
   modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
   }
   __ln();
   __out("   ");
} else if ($if(v.isNull())) {
   __dl();__ln();
   __out("   ");
   __dl();
   if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
      __dl();__ln();
      __out("   ");
      __dl();__ln();
      __out("   ");
      __dl();
      if ($if($(v.isNullable(), or, type.isGeneratePrivateNoargConstructor()))) {
         __dl();__ln();
         __out("   ");
         $(_<-, objectsEqual, type);
         __out("(this.");
         $(_<-, v.name());
         __out(" , value)) return this;" ).ln();
         __out("   ");
      }
   } else {
      __dl();__ln();
      __out("   ");
      $(_<-, v.name());
      __out(" .equals(value)) return this;" ).ln();
      __out("   ");
   }
   __dl();__ln();
   __out("   ");
} else {
   __dl();__ln();
   __out("   ");
   $(_<-, v.name());
   __out(" .equals(value)) return this;" ).ln();
   __out("   ");
   __dl();__ln();
   __out("   ");
}
final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);
final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");
$(__, generateReturnCopyRaw, type_generateReturnCopy_879511243, modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);

} __ln();
__out(" ");

} else {
  __dl();__ln();
  __out(" ");
$(__, v.atNullabilityLocal());
$(__, immutableImplementationType, v);
  __out(" newValue = ");
$(__, valueFromValue, v, "value");
  __out(".");ln();
  __out(" ");
  __dl();

if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
  __dl();__ln();
  __out(" ");
  __dl();__ln();
  __out(" ");
  __dl();

if ($if($(v.isNullable(), or, type.isGeneratePrivateNoargConstructor()))) {
  __dl();__ln();
  __out(" if (";
$(__, objectsEqual, type);
  __out("(this.");
$(__, v.name());
  __out(" , newValue) return this;"));ln();
  __out(" ");

} else {
  __dl();__ln();
  __out(" if (this.");
$(__, v.name());
  __out(" .equals(newValue) return this;"));ln();
  __out(" ");

}
__dl();__ln();
__out(" ");
}
org.immutables.generator.Templates.Invokable defaultAnnotationValues() { return defaultAnnotationValues; }

private final org.immutables.generator.Templates.Invokable defaultAnnotationValues = new FragmentDispatch(1, 54);

void _t54__defaultAnnotationValues(org.immutables.generator.Templates.Invocation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> defaults = $cast(type.getDefaultAttributes());
    if ($if(defaults)) {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        final org.immutables.value.processor.meta.ValueAttribute a : $in(defaults)) {
            private static final $(__, a.getType());
            $(__, toConstant, a.name());
            __out(" DEFAULT_VALUE_ ");
            __out(__);__ln();
            __out(" ");
            __ln();
        }
    }
}

if ($if(defaults)) {
    final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(defaults)) {
        __out("private static final ");
        $(__, a.getType());
        __out(" DEFAULT_VALUE_ ");
        $(__, toConstant, a.name());
        __out(", ");__ln();
        __ln();
        __out(" \n");
        __ln();
        __ln();
        __ln();
    }
}
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```java
__.dl();__.ln();
__.ln();
__.out("static {".ln();
__.out(" try {".ln();
__.out("  ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(defaults)) {
  __.dl();__.ln();
  __.out(" DEFAULT_VALUE_");
  $___.toConstant, a.name();
  __.out(" =").ln();
  __.out("    cast(");
  $___.type.typeAbstract().relative();
  __.out(".class.getDeclaredMethod("";
  $___.a.name();
  __.out(" .getDefaultValue();").ln();
  __.out("  ");
  __.dl();_it2.index++;
  _it2.first = false;
}}
__.dl();__.ln();
__.out("  } catch(Exception e) {".ln();
__.out("    throw new ExceptionInInitializerError(e);").ln();
__.out("  })".ln();
__.dl();
__.ln();
__.out("@SuppressWarnings("unchecked")").ln();
__.out("private static <T> T cast(Object object) {".ln();
__.out("    return (T) object;".ln();
__.out("  ");

}
__.dl();__.ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
__.dl();

org.immutables.generator.Templates.Invokable forwardingEnclosingFactoryMethods() { return forwardingEnclosingFactoryMethods; }
private final org.immutables.generator.Templates.Invokable forwardingEnclosingFactoryMethods = new FragmentDispatch(1, 55);
void _t55__forwardingEnclosingFactoryMethods(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(___.param(0));
  __.ln();
  __.out("  ");
}
```

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if ($if(type.constitution.isImplementationHidden())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(type.isUseSingleton())) {
    __dl();__ln();
    __ln();
    __out("/**");__ln();
    __out(" * Returns a default immutable singleton value of ");
    $(___.type.name());
    __out(".");__ln();
    $(___.javadocGenerics, type);
    __ln();
    __out(" * @return An immutable instance of ");
    $(___.type.name());
    __ln();
    __out(" */");__ln();
    __out("public static");
    $(___.type.generics().def());
    __out(" ");
    $(___.type.typeValue().relative());
    __out(" ");
    $(___.type.factoryInstance().simple());
    __out("() {").ln();
    __out(" return ");
    $(___.type.typeImmutable().relative());
    __out(" ");
    $(___.type.names().instance);
    __out(";"").ln();
    __out(";");__ln();
    __out(" ");
  }
  __dl();__ln();
  __out(" ");
  __dl();
}"}
$(__, javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();__ln();
  __out(" * @param ");
  $__._v.name());
  __out(" The value for the { @code ");
  $__._v.name());
  __out(" } attribute");
  __dl();
  if ($(v.isNullable())) {
    __dl();__out(" , can be { @code null");
  }
  __dl();__ln();
  __dl();_it1.index++;
  _it1.first = false;
}
__dl();__ln();
__out(" * @return An immutable ");
$__._type.name());
__out(" instance").ln();
__out(" */").ln();
$__._eachLine, type.getConstructorAnnotations());
__ln();
$__._eachLine, type.constructorInjectedAnnotations());
__ln();
__out("public static");
$__._type.generics().def());
__out(" ");
$__._type.typeValue().relative());
__out(" ");
$__._type.factoryOf().simple());
__out("()");
} final org.immutables.generator.Templates.Iteration _it1 = new org.immutables generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();
  if ($(not, _it1.first))) {
    __dl();__out(" , ");
  }
  __dl();$(__, v.getConstructorParameterAnnotations());
  $(__. v.atNullability());
  $(__. v.getType());
  __out(" ");
  $(__. v.name());
  __dl();_it1.index++;
}
```java
_it1.first = false;
}
__dl();__out("} ".ln();
__out(" return ");
$___.type.factoryOf().simple();
__out("() ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();__dl();
  if ($if($not(_it1.first))) {
    __dl();__dl();
  }
  __dl();__dl();
  if ($if(v.requiresAlternativeStrictConstructor())) {
    __dl();__out("(");
    $(__, constructorAcceptType, v);
    __out(") ");
  }
  __dl();$(__, v.name());
  __dl();_it1.index++;
  _it1.first = false;
}
__dl();__out("=").ln();
__out(""").ln();
__out(" ");
}
__dl();__ln();
__ln();
__out("/**").ln();
__out(" * Construct a new immutable { @code ");
$(__, type.name());
__out("} instance.").ln();
$(__, javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();__ln();
  __out(" * @param ");
  $(__, v.name());
  __out(" The value for the { @code ");
  $(__, v.name());
  __out("} attribute");
  __dl();
  if ($if(v.isNullable())) {
    __dl();__out(" can be { @code null ");
```

__.dl();__.ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
__.out(" * @return An immutable ");
$__(_.type.name());
__.out(" instance").ln();
__.out(" */").ln();
$__(_.eachLine, _.type.constructorAnnotations());
__.ln();
$__(_.eachLine, _.type.constructorInjectedAnnotations());
__.ln();
__.out("public static");
$__(_.type.generics().def());
__.out(" ");
$__(_.type.typeValue().relative());
__.out(" ");
$__(_.type.factoryOf().simple());
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(_.type.getConstructorArguments())) {
  ___.dl();_.dl();
  if ($if($(not, _it1.first))) {
    ___.dl();_.out(",
  }
  ___.dl();_.out(" ");
  $(___.v.getConstructorParameterAnnotations());
  $(___.v.atNullability());
  $(___.constructorAcceptType, v);
  _.out(" ");
  $(___.v.name());
  ___.dl();_it1.index++;
  _it1.first = false;
}
___.dl();_.out(" ").ln();
__.out(" return ");
$__(_.type.typeImmutable().relative());
_.out(".");
$__(_.type.names().of);
_.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(_.type.getConstructorArguments())) {
  ___.dl();_.dl();
  if ($if($(not, _it1.first))) {
    ___.dl();_.out(",
  }
  ___.dl();_.out(" ");
org.immutables.generator.Templates.Invokable javadocBuilderExample() { return javadocBuilderExample; }
private final org.immutables.generator.Templates.Invokable javadocBuilderExample = new FragmentDispatch(1, 56);

void _t56__javadocBuilderExample(org.immutables.generator.Templates.Invocation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  $(__, docEscaped, type.factoryBuilder().relative());
  $(__, docEscaped, type.factoryBuilder().relative());
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    if ($if(v.isEncoding())) {
      $(__, rr.builderCopyFrom(), v);
      $(__, sourceDocLink, v);  //
      $(__, docEscaped, v.getType());
      __.out("\n");
    } else if ($if(v.isNullable())) {
      __.out(" \n");
    }
  }
}
__dl();__ln();
$out(" * ").$
$__out("(");
$out(" | null) // nullable ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$out(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__ln();
$__out(" ");
} else if ($if(v.isCollectionType())) {
__dl();__ln();
$__out(" * ").$
$out(__, v.names.add());
$__out("[");
$out(__, v.names.addAll());
$__out("(");
$out(__, docEscaped, v.getUnwrappedElementType());
$__out(") // ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$out(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
$__out(" elements").ln();
$__out(" ");
} else if ($if(v.isMapType())) {
__dl();__ln();
$__out(" * ").$
$out(__, v.names.put());
$__out("[");
$out(__, v.names.putAll());
$__out("(");
$out(__, docEscaped, v.getUnwrappedElementType());
$__out(" =">&gt; ");
$out(__, docEscaped, v.getUnwrappedSecondaryElementType());
$__out(") // ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$out(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
$__out(" mappings").ln();
$__out(" ");
} else {
__dl();__ln();
$__out(" * ");
}
$.out("(");
$.out(") // ");
$.dl();
if ($if(v.isMandatory()) {
  $.dl();$.out("required");
} else {
  $.dl();$.out("optional");
}
$.dl();$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$.out(" ");
$.ln();
$.out("  ");
$.out(" ");
}$.dl();$.ln();
$.dl();_it1.index++;
_it1.first = false;
}$.dl();$.ln();
$.out(" ");
$.dl();$.ln();
$.dl();$.ln();
$.out(" ");
$.out(" ");
$.dl();$.ln();
$.out(" ");
$.out(" ");
$.dl();$.ln();
$.out(" ");
$.out(" ");
$.dl();$.ln();
$.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
$.out(" ");
$.ln();
$.dl();
if ($if(v.isEncoding()) {
  $.dl();$.ln();
  $.out(" ");
  $.out(" ");
  $.ln();
  $.dl();
}.
$.out(" ");
$.ln();
$.dl();
$.ln();
$.out(" ");
$.out(" ");
$.ln();
$.dl();}
org.immutables.generator.Templates.Invokable immutableImplementationType() { return
immutableImplementationType; }
private final org.immutables.generator.Templates.Invokable immutableImplementationType = new
FragmentDispatch(1, 57);
void _t57__immutableImplementationType(org.immutables.generator.Templates.Invokation __) {
  $.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  $.out(" ");
  $.ln();
  $.dl();
  if ($if(v.isEncoding()) {
    $.dl();$.ln();
    $.out(" ");
    $.ln();
  }.
  $.out(" ");
  $.ln();
  $.dl();}
} else if (Sif(v.isJdkOptional())) {
    __.dl();__.dl();__.ln();
    __(, atNullable, v);
    $(__, v.getWrappedElementType());
    __.ln();
} else if (Sif(v.isCustomCollectionType())) {
    __.dl();__.ln();
    __.out(" ");
    $(__, v.implementationType());
    __.ln();
} else if (Sif($(v.isGenerateOrdinalValueSet(), andnot, v.isGenerateJdkOnly()))) {
    __.dl();__.ln();
    __.out(" org.immutables.ordinal.ImmutableOrdinalSet");
    $(__, v.getGenericArgs());
    __.ln();
} else if (Sif($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly()))) {
    __.dl();__.ln();
    __.out(" ");
    $(__, guava);
    __.out(".collect.ImmutableSortedSet");
    $(__, v.getGenericArgs());
    __.ln();
} else if (Sif($(v.isCollectionType(), andnot, v.isGenerateJdkOnly()))) {
    __.dl();__.ln();
    __.out(" ");
    $(__, guava);
    __.out(".collect.Immutable");
    $(__, v.getRawCollectionType());
    $(__, v.getGenericArgs());
    __.ln();
} else if (Sif($(v.isGenerateSortedMap(), andnot, v.isGenerateJdkOnly()))) {
    __.dl();__.ln();
    __.out(" ");
    $(__, guava);
    __.out(".collect.ImmutableSortedMap");
    $(__, v.getGenericArgs());
    __.ln();
} else if (Sif($(v.isMapType(), andnot, v.isGenerateJdkOnly()))) {
    __.dl();__.ln();
    __.out(" ");
    $(__, guava);
    __.out(".collect.Immutable");
    $(__, v.getRawMapType());
    $(__, v.getGenericArgs());
    __.ln();
}
} else {
org.immutables.generator.Templates.Invokable immutableCollectionBuild() { return immutableCollectionBuild; }
private final org.immutables.generator.Templates.Invokable immutableCollectionBuild = new FragmentDispatch(2, 58);
void _t58__immutableCollectionBuild(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();
      if ($if(a.isGenerateJdkOnly())) {
        __dl();
        __out(" ");
        __dl();
        if ($if(a.isGenerateSortedSet())) {
          __dl();
          __out(" createUnmodifiableSortedSet(");
          $(__, a.hasReverseOrder());
          __out(" createSafeList(");
          $(__, expression);
          __out(" createOrdinalValueSet("));
          __out(" Not implemented generate OrdinalValue set for JDK only");} else if ($if(a.isGenerateEnumSet())) {
          __dl();
          __out(" createUnmodifiableEnumSet(");
          $(__, expression);
          __out(" createOrdinalValueSet("));
          __out(" Not implemented generate OrdinalValue set for JDK only");} else if ($if(a.isGenerateOrdinalValueSet())) {
          __dl();
          __out(" Not implemented generate OrdinalValue set for JDK only");
      });
  });
}
} else {
  __dl();__ln();
  __out("  ");
  __dl();
  if ($if($a.isGenerateOrdinalValueSet(), or, $a.isGenerateEnumSet(), or, $a.isGenerateEnumMap())) {
    __dl();__ln();
    __out("    ");
    $___.immutableCollectionCopyOf(a, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(___.expression);
        __out("    ");
        __dl();
      } });
    __ln();
    __out("  ");
  } else {
    __dl();__ln();
    __out("    ");
    __dl();
    if ($if($a.isAttributeBuilder())) {
      __dl();$___.expression;
      __out("    ");
      __dl();
    } else {
      __dl();$___.expression;
      __out("    ");
    } __dl();__ln();
    __out("  ");
  }

  } else {
    __dl();__ln();
    __out("    ");
    __dl();
  }
  if ($if($a.isAttributeBuilder())) {
    __dl();$___.expression;
    __out("    ");
    __dl();
  } else {
    __dl();$___.expression;
    __out("    ");
  } __dl();__ln();
  __out("  ");

  } __dl();__ln();
  __out("  ");

  } __dl();__ln();
  __out("  ");

  } __dl();
} __dl();
}
}

org.immutables.generator.Templates.Invokable immutableCollectionCopyOf() { return immutableCollectionCopyOf; }
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOf = new FragmentDispatch(2, 59);
void _t59__immutableCollectionCopyOf(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, immutableCollectionCopyOfSafe, a, $$true, expression);
  __.dl();
};

org.immutables.generator.Templates.Invokable immutableCollectionCopyOfSafe() { return immutableCollectionCopyOfSafe; }
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOfSafe = new FragmentDispatch(3, 60);
void _t60__immutableCollectionCopyOfSafe(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.Boolean safe = $if(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      if ($if(a.isGenerateJdkOnly())) {
        __.dl();
        if ($if(safe)) {
          __.dl();
          __.ln();
          __.dl();
          __.ln();
          __.dl();
          __.ln();
          __.dl();
        } else {
          __.dl();
          __.ln();
          __.dl();
        }
        if ($if(a.isGenerateSortedSet())) {
          __.dl();
          __.ln();
          __.dl();
        } else {
          __.dl();
          __.ln();
          __.dl();
        }
      }
    }
  });
}
$(__, a.hasReverseOrder());
__out("", ");
$__ out(" ");
$__ out(" ");
} else if ($if(a.isGenerateEnumSet())) {
    __dl();__ln();
    __out(" createUnmodifiableEnumSet(");
$__ expression);__out(" ");
    __out(" ");
} else if ($if(a.isGenerateOrdinalValueSet())) {
    __dl();__ln();
    __out(" ");
    $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__out("Not implemented generate OrdinalValue set for JDK only");
    __dl();
    });
    __ln();
    __out(" ");
} else if ($if(a.isListType())) {
    __dl();__ln();
    __out(" createUnmodifiableList(false, ");
$__ safeList);__out(" ");
    __out(" ");
} else if ($if(a.isSetType())) {
    __dl();__ln();
    __out(" createUnmodifiableSet(");
$__ safeList);__out(" ");
    __out(" ");
} else if ($if(a.isGenerateEnumMap())) {
    __dl();__ln();
    __out(" createUnmodifiableEnumMap(");
$__ safe, and, a.nullElements.ban());
    __out(" ");
    $(__, a.nullElements.skip());
    __out(" ");
    $(__, expression);__out(" ");
    __out(" ");
} else if ($if(a.isGenerateSortedMap())) {
    __dl();__ln();
    __out(" createUnmodifiableSortedMap(");
$__ a.hasReverseOrder());
    __out(" ");
}
(__, safe, and, a.nullElements.ban());
__.out(",");
(__, a.nullElements.skip());
__.out(",");
(__, expression);
__.out("").ln();
__.out(";");
} else if ($if(a.isMapType())) {
__dl();__.ln();
__.out(" createUnmodifiableMap(");
(__, safe, and, a.nullElements.ban());
__.out(",");
(__, a.nullElements.skip());
__.out(",");
(__, expression);
__.out("").ln();
__.out(";");
}

} else {
__dl();__.ln();
__.out(" ");
(__, expression);
__.ln();
__.out(" ");
}
__dl();__.ln();

} else {
__dl();__.ln();
__.out(" ");
__dl();
if ($if(a.isGenerateSortedSet())) {
__dl();__.ln();
__.out(" ");
(__, guava);
__.out("collect.ImmutableSortedSet.copyOf(").ln();
__.out(" ");
__dl();
if ($if(a.hasNaturalOrder())) {
__dl();__.ln();
__.out(" ");
(__, guava);
__.out("collect.Ordering.<");
(__, a.getElementType());
__.out("natural()").ln();
__.out(" ");
}
} else {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.out("\n\n        ");
    $.ln();
} else if ($.isGenerateEnumSet()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.out("\n\n        ");
    $.ln();
} else if ($.isGenerateOrdinalValueSet()) {
    $.ds(); $.ln();
    $.out("        ");
    $.out("\n\n\n        ");
    $.ln();
} else if ($.isGenerateSortedMultiset()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
    $($.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
} else if ($.isGenerateEnumSet()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
} else if ($.isGenerateOrdinalValueSet()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
} else if ($.isGenerateSortedMultiset()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
if ($.isGenerateNaturalOrder()) {
    $.ds(); $.ln();
    $.out("        ");
    $($.g(), $.a());
    $.out("\n\n\n        ");
    $.ln();
} else {
    $.ds(); $.ln();
    $.out("        ");
}
$(_, guava);
__out(".collect.Ordering.<");
$(_, a.getElementType());
__out(">natural().reverse()").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
$(_, expression);
__out(" ").ln();
__out(" ");
} else if ($if(a.isCustomCollectionType())) {
__dl();__ln();
__out(" ");
$(_, a.getRawType());
__out(".from(");
$(_, expression);
__out("")").ln();
__out(" ");
} else if ($if(a.isCollectionType())) {
__dl();__ln();
__out(" ");
$(_, guava);
__out(".collect.Immutable");
$(_, a.getRawCollectionType());
__out(".copyOf(");
$(_, expression);
__out(" ").ln();
__out(" ");
} else if ($if(a.isGenerateSortedMap())) {
__dl();__ln();
__out(" ");
$(_, guava);
__out(".collect.ImmutableSortedMap.copyOf(");
$(_, expression);
__out(" ").ln();
__out(" ");
__dl();
if ($if(a.hasNaturalOrder())) {
__dl();__ln();
__out(" ");
$(_, guava);
__out(".collect.Ordering.<");
$(_, a.getElementType());
__out(">natural()").ln();
__out(" ");
}
} else {
    __dl();__ln();
    __out("    ");
    $(__, guava);
    __out(".collect.Ordering.<");
    $(__, a.getElementType());
    __out(">natural().reverse()").ln();
    __out("    ");

    __dl();__out(""").ln();
    __out("    ");
} else if ($if(a.isGenerateEnumMap())) {
    __dl();__ln();
    __out("    ");
    $(__, guava);
    __out(".collect.Maps.immutableEnumMap(");
    $(__, expression);
    __out(""").ln();
    __out("    ");
} else if ($if(a.isMapType())) {
    __dl();__ln();
    __out("    ");
    $(__, guava);
    __out(".collect.Immutable";)
    $(__, a.getRawMapType());
    __out(".copyOf(";
    $(__, expression);
    __out(""").ln();
    __out("    ");

} else {
    __dl();__ln();
    __out("    ");
    $(__, expression);
    __ln();
    __out("    ");

    __dl();__ln();

    __dl();__ln();
    __dl();
}));
__dl();
public org.immutables.generator.Templates.Invokable equalsAttribute() { return equalsAttribute; }

private final org.immutables.generator.Templates.Invokable equalsAttribute = new FragmentDispatch(2, 61);

void _t61__equalsAttribute(org.immutables.generator.Templates.Invokation __) {
  __dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.Boolean useAccessor = $if(__.param(1));
  $__().output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __.ln();
      final org.immutables.value.processor.meta.ValueAttribute thisAttr = new FragmentDispatch(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl(); __.ln();
          final org.immutables.value.processor.meta.ValueAttribute another = $if($(a.name(), eq, "another")) {
            __dl(); __.out("this.");

          } __.ln();
        }
      } __.ln();
      final org.immutables.value.processor.meta.ValueAttribute getOther = new FragmentDispatch(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl(); final org.immutables.value.processor.meta.ValueAttribute thisAttr = this;
          __dl();
          if ($if(useAccessor)) {
            __dl(); $(__, a.names.get);
            __.out("(");
          } else {
            __dl(); $(__, a.name());
          }
          __dl(); __dl();
        }
      } __.ln();
      if ($if(a.isEncoding())) {
        __dl(); __.ln();
        __.out("another.");
        __dl();
      } else if ($if($if(useAccessor)) {
        __dl(); $(__, a.names.get);
        __.out("(");
      } else if ($if($if(useAccessor)) {
        __dl(); __.ln();
        __.out(" ");
      } __.ln();
      $(__, rr.equals(), a, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl(); __.out("another");
          __dl();
        }
      } __.ln();
      } __.ln();
    } __dl();
  }
}};
__out(" Float.floatToIntBits(");
$(__, thisAttr);
__out(") == Float.floatToIntBits(");
$(__, getOther);
__out(")").ln();
} else if ($if(a.isDouble())) {
  __dl();__ln();
  __out(" Double.doubleToLongBits(");
$(__, thisAttr);
__out(") == Double.doubleToLongBits(");
$(__, getOther);
__out(")").ln();
} else if ($if(a.isPrimitive())) {
  __dl();__ln();
  __out(" ");
  $(__, thisAttr);
  __out(" == ");
  $(__, getOther);
  __ln();
} else if ($if(a.isArrayType())) {
  __dl();__ln();
  __out(" java.util.Arrays.equals(");
  $(__, thisAttr);
  __out(" ");
  $(__, getOther);
  __out(""").ln();
} else if ($if($(a.isNull(), or, a.isJdkOptional()))) {
  __dl();__ln();
  __out(" ");
  $(__, objectsEqual, a.containingType);
  __out(" ");
  $(__, thisAttr);
  __out(" ");
  $(__, getOther);
  __out(""").ln();
} else {
  __dl();__ln();
  __out(" ");
  $(__, thisAttr);
  __out(" .equals(");
  $(__, getOther);
  __out(""").ln();
}
__dl();__ln();
__dl();
}});
public org.immutables.generator.Templates.Invokable arrayAsList() { return arrayAsList; }
private final org.immutables.generator.Templates.Invokable arrayAsList = new FragmentDispatch(2, 62);

void _t62__arrayAsList(org.immutables.generator.Templates.Invocation __) {
 __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
      __.dl();___.ln();
      __.dl();
      if ($if(a.isUnwrappedElementPrimitiveType())) {
        __.dl();___.ln();
        ___.out("  ");
        ___.dl();
        if ($if(a.isGenerateJdkOnly())) {
          __.dl();___.ln();
          __.out("    ");
          $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invocation __) {
              __.dl();__.out("Template methods \u2018arrayAsList\u2019 could not be used for primitive jdk only conversion");
              __.dl();
            });
            ___.ln();
            ___.out("  ");
          } else {
            __.dl();___.ln();
            __.out("    ");
            $(__, guava);
            __.out(".primitives.");
            $(__, toUpper, a.getUnwrappedElementType());
            __.out("asList(");
            $(__, expression);___.ln();
            __.out("  ");
          }
        } else {
          __.dl();___.ln();
          __.out("  ");
          $(__, guava);
          __.out(".primitives.");
          $(__, toUpper, a.getUnwrappedElementType());
          __.out("asList(");
          $(__, expression);___.ln();
          __.out("  ");
        }
      } else {
        __.dl();___.ln();
        __.out(" java.util.Arrays.asList(");
        $(__, expression);___.ln();
      }
    }
  });
}
```java
public org.immutables.generator.Templates.Invokable arrayAsListSecondary() {
    return arrayAsListSecondary;
}

private final org.immutables.generator.Templates.Invokable arrayAsListSecondary = new FragmentDispatch(2, 63);

void _t63__arrayAsListSecondary(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    final java.lang.String expression = __.param(1).toString();
    $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            if ($if(a.isUnwrappedSecondaryElementPrimitiveType())) {
                if ($if(a.isGenerateJdkOnly())) {
                    $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                            __.dl();
                            __.ln();
                            __.out("Template methods \u007barrayAsList\u007d could not be used for primitive jdk only conversion");
                        }
                    });
                } else {
                    __.dl();
                    __.ln();
                    __.out("java.util.Arrays.asList(");
                    __.out(expression);
                    __.ln();
                    __.out(" ");
                }
            } else {
                __.dl();
                __.ln();
                __.out(" ");
                $(__, guava);
                __.out(".primitives.");
                $(__, toUpper, a.getUnwrappedSecondaryElementType());
                __.out(".asList(");
                $(__, expression);
                __.out(".").ln();
                __.out(" ");

            }
            __.dl();
            __.ln();
        }
    });
    __.ln();
}
```
```java
public org.immutables.generator.Templates.Invokable primitiveHashCode() { return primitiveHashCode; }

private final org.immutables.generator.Templates.Invokable primitiveHashCode = new FragmentDispatch(1, 64);

void _t64__primitiveHashCode(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));

    $(___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
        __.dl();
        __.ln();
        __.dl();
        __.ln();
        __.dl();
        __.ln();
        __.dl();
        __.ln();
        __.dl();
        __.ln();

        if ($if(v.isInt())) {
            __.dl();
            __.ln();
            __.out(" ");
           __$(__, v.name());
            __.ln();
        } else if ($if(v.isGenerateJdkOnly())) {
            __.dl();
            __.ln();
            __.out(" ");
            __.dl();

            if ($(classpath.isJava8(), andnot, $(classpath.available, "android.R"))) {
                __.dl();
                __.ln();
                __.out(" ");
               __$(__, v.getWrapperType());
                __.out(" .hashCode(");
               __$(__, v.name());
                __.out(" )").ln();
                __.out(" ");
            } else if ($if(v.isLong())) {
                __.dl();
                __.ln();
                __.out(" (int) (");
               __$(__, v.name());
                __.out(" ^ (");
               __$(__, v.name());
                __.out(" >>> 32))").ln();
                __.out(" ");
            } else if ($if(v.isBoolean())) {
                __.dl();
                __.ln();
                __.out(" (");
               __$(__, v.name());
                __.out(" ? 1231 : 1237)").ln();
                __.out(" ");
            } else if ($if(v.isBool())
```
{ if ($if(v.isFloat())) {
    __.dl();__.ln();
    __.out("  Float.floatToRawIntBits(");
    $(__, v.name());
    __.out(")").ln();
    __.out("  ");
} else if ($if(v.isDouble())) {
    __.dl();__.dl();__.ln();
    __.out("  Double.valueOf(");
    $(__, v.name());
    __.out(").hashCode()").ln();
    __.out("  ");
}
else {
    __.dl();__.ln();
    __.out("  (int) ");
    $(__, v.name());
    __.ln();
    __.out("  ");
}
___.dl();___.ln();
}

public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();___.ln();
        }
    });
    __.dl();
}
final java.lang.Boolean hasObjects = $cast($cast(classpath.available, "java.util.Objects"));
final java.lang.Boolean hasAndroid = $cast($cast(classpath.available, "android.R"));
  __.dl();__.ln();
  __.dl();
if ($if(type.isGenerateJdkOnly()))
  __.dl();__.ln();
  __.out(" ");
  __.dl();
if ($if(hasAndroid))
  __.dl();__.ln();
  __.out(" ");

profile.topSimplePrefix, type);
  __.out("equals").ln();
  __.out(" ");
} else if ($if(hasObjects))
  __.dl();__.ln();
  __.out(" java.util.Objects.equals").ln();
  __.out(" ");
} else {
  __.dl();__.ln();
  __.out(" ");

profile.topSimplePrefix, type);
  __.out("equals").ln();
  __.out(" ");
}
  __.dl();__.ln();
} else {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
if ($if($hasObjects, andnot, hasAndroid))
  __.dl();__.ln();
  __.out(" java.util.Objects.equals").ln();
  __.out(" ");
} else {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
$profile.guava);
  __.out("=base.Objects.equal").ln();
  __.out(" ");
}
  __.dl();__.ln();
public org.immutables.generator.Templates.Invokable objectsHashCode() { return objectsHashCode; }
private final org.immutables.generator.Templates.Invokable objectsHashCode = new FragmentDispatch(1, 66);
void _t66__objectsHashCode(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = instance._param(0);
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      if ($if(type.isGenerateJdkOnly())) {
        $(__, topSimplePrefix, type);
        __out("  ");
      } else if ($if(hasObjects)) {
        __out("    java.util.Objects.hashCode");
        __out("  ");
      } else {
        __out("    ");
        $(__, topSimplePrefix, type);
        __out("  ");
      }
    }
  });
}
public org.immutables.generator.Templates.Invokable requireNonNull() { return requireNonNull; }

private final org.immutables.generator.Templates.Invokable requireNonNull = new FragmentDispatch(1, 67);

void _t67__requireNonNull(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();
      if ($if(type.getThrowForNullPointer())) {
        __dl();
        $(__, topSimplePrefix, type);
        __out("requireNonNull").ln();
      } else if ($if(type.isGenerateJdkOnly())) {
        __dl();
        __out(""");
        $(__, guava);
        __out(".base.Objects.hashCode").ln();
        __out(" ");
      }
      __dl();
    }
  });
}
__dl();__ln();
__out(" ");
__dl();
if ($if(hasAndroid)) {
  __dl();__ln();
  __out(" ");
  __(__, topSimplePrefix, type);
  __out("requireNonNull").ln();
  __out(" ");
} else if ($if(hasObjects)) {
  __dl();__ln();
  __out(" java.util.Objects.requireNonNull").ln();
  __out(" ");
}
} else {
  __dl();__ln();
  __out(" ");
  __(__, topSimplePrefix, type);
  __out("requireNonNull").ln();
  __out(" ");
}
__dl();__ln();
} else {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if($if(hasObjects, andnot, hasAndroid))) {
    __dl();__ln();
    __out(" java.util.Objects.requireNonNull").ln();
    __out(" ");
  }
  else {
    __dl();__ln();
    __out(" ");
    __(__, guava);
    __out(".base.Preconditions.checkNotNull").ln();
    __out(" ");
  }
} __dl();__ln();
__dl();__ln();
__dl();__ln();
__dl();__ln();
_it1.index++;
_it1.first = false;
}
private static int hashCode(Object object) {
  return object != null ? object.hashCode() : 0;
}

private static boolean equals(Object left, Object right) {
  return left == right || (left != null && left.equals(right));
}

public org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities() { return attributeBuilderTransformUtilities; }

private final org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities = new FragmentDispatch(1, 69);

void _t69__attributeBuilderTransformUtilities(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
}
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
  __dl();__out("@javax.annotation.Nullable");
}
__dl();
__ln();
__dl();__ln();
__out("private static");
$___.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
__out("(");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());
  __out("convertToValueType");
  $___.n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores();
}
__out(")");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);__dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    __dl();__out("@javax.annotation.Nullable");
  }
}
__out(" ");
$___.v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
__out(" builder ");
__ln();
__out(" if (builder == null) return null");
__ln();
__out(" return builder.");
$___.v.getAttributeBuilderDescriptor().getBuildMethod();
__out(" ");
__ln();
__ln();
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);__dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    __dl();__out("@javax.annotation.Nullable");
  }
}
__dl();
__ln();
__dl();__ln();
__out("private static");
__dl();
if (v.hasAttributeValue()) {
    __.dl();$(__, v.attributeValueType.typeAbstract().absolute());
} else {
    __.dl();$(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
}

{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());
    __.dl();___.out("convertToValueType");
    $(__, n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());
}

{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    __.dl();
    if ($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
        __.dl();___.out("@javax.annotation.Nullable ");
    }
    __.dl();
}

{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
    final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
            __.out("value");
            __.dl();
        });
    __.dl();___.dl();
    if ($(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        __.dl();$(__, expression_valueToBuilder_1442539515);
        __.out(".");
        $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    }
__out("()");

} else {
    __dl():$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    __out("()");
    $(__, expression_valueToBuilder_1442539515);
    __out("()")
    }
    __dl();
} __out(",");
$(__, v.getAttributeBuilderDescriptor().getBuildMethod());
__out("();").ln();
__out(";");.ln();
__ln();
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    __dl();
    if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))} {
        __dl():__out("@javax.annotation.Nullable ");
    }
    __dl();
} __ln();
__out("private static ");
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
__out(" ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
    __out("convertToBuilderType");
    $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
}
__out(";");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    __dl();
    if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))} {
        __dl():__out("@javax.annotation.Nullable ");
    }
    __dl();
} __out(" ");
__dl();
if ($if(v.hasAttributeValue())} {
    __dl():$__p, v.attributeValueType.typeAbstract().absolute());
} else {
    __dl();__$_. v.getAttributeBuilderDescriptor().getQualifiedValueTypeName();

    }
__dl();__out(" value) {").ln();
__out("  if (value == null) return null;").ln();
__out("  return ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());

    final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
            __dl();
        }
    });__dl();__dl();
    if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        __dl();$___. expression_valueToBuilder_1442539515;
        __out(".");
        $(___. n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __out("()");
    } else {
        __dl();$___. n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __out("(");
        $(___. expression_valueToBuilder_1442539515);
        __out("()");
    }
__dl();
}
__out(";").ln();
__out("\n").ln();
__dl();__it1.index++;
__it1.first = false;
}
__dl();__ln();
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v :
        $in(type.getUniqueAttributeBuilderListAttributes())) {
        __dl();$___. n_valueToBuilder_1442539515.getQualifiedValueToBuilderListAttributes());
        __out("\n");
        final org.immutables.generator.Templates.Invokable listType = new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();final org.immutables.generator.Templates.Invokable listType = this;
                __dl();
                if ($if(v.hasAttributeValue())) {

    } else {
        __dl();__$_. v.getAttributeBuilderDescriptor().getQualifiedValueTypeName();

    }
private static java.util.List<
$___.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
$___.out(">");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
$___.out("convertToBuilderType");
$___.n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();
}
$___.out("(Iterable<? extends ");
$___.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
$___.out(">");
$___.copyBuilderListBody, v, $false, $false, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {";
__dl();__out("valueList");
__dl();
__ln();
__out(""").ln();
__ln();
__out("private static java.util.List<");
$___.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
$___.out(">");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
$___.n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();
}
$___.out(""");
$___.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
$___.out("...");
$___.copyBuilderListBody, v, $false, $true, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {";
__dl();__out("valueArray");
__dl();
__ln();
__out(""").ln();
__dl();__it1.index++;
__it1.first = false;
}}
__dl();__ln();
}
__dl();__ln();
__dl();
}
org.immutables.generator.Templates.Invokable convertToBuilderType() { return convertToBuilderType; }
private final org.immutables.generator.Templates.Invokable convertToBuilderType = new FragmentDispatch(1, 70);
void _t70__convertToBuilderType(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
    __.out("convertToBuilderType");
    $(__, n.getQualifiedValueTypeNameWithUnderscores());
    __.dl();
}

org.immutables.generator.Templates.Invokable convertToValueType() { return convertToValueType; }
private final org.immutables.generator.Templates.Invokable convertToValueType = new FragmentDispatch(1, 71);
void _t71__convertToValueType(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
    __.out("convertToValueType");
    $(__, n.getQualifiedValueTypeNameWithUnderscores());
    __.dl();
}

org.immutables.generator.Templates.Invokable copyBuilderInterface() { return copyBuilderInterface; }
private final org.immutables.generator.Templates.Invokable copyBuilderInterface = new FragmentDispatch(4, 72);
void _t72__copyBuilderInterface(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.Boolean toValueType = $if(__.param(1));
    final java.lang.Boolean vargs = $if(__.param(2));
    final java.lang.String listToTransform = __.param(3).toString();
    __.ln();
    final org.immutables.generator.Templates.Invokable listType = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();final org.immutables.generator.Templates.Invokable listType = this;
            __.dl();
            if ($if(toValueType)) {
                __.dl();___.dl();
                if ($if(v.hasAttributeValue())) {
                    ___.dl();$(__, v.attributeValueType.typeAbstract().absolute());
                } else {
                    ___.dl();$(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
                }
            } else {
                __.dl();$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
            }
        }
    };___.dl();___.ln();
}
```java
if ($if(v.isGenerateJdkOnly())) {
    __out(" java.util.ArrayList<");
    __dl();
    __out($(__, listType));
    __out(" > list;").ln();
    __out(" ");
    __dl();
    __dl();
    __out(" if (") ; __ln();
    __out($(__, listToTransform));
    __out(" .length == 0) return java.util.Collections.emptyList();");ln();
    __out(" ");
}
else {
    __dl();__ln();
    __out(" if (") ;
    __out($(__, listToTransform));
    __out(" instanceof java.util.Collection<?>) {") ; __ln();
    __out(" int size = ((java.util.Collection<?>) ");
    __out($(__, listToTransform));
    __out(" .size();");ln();
    __out(" if (size == 0) return java.util.Collections.emptyList();") ; __ln();
    __out(" ");
    __out(" ");
}
__dl();__ln();
__out(" list = new java.util.ArrayList");
$__ asDiamond, listType);__out("();");ln();
__out(" ");
}
else {
    __dl();__ln();
    __out(" ");
```
if ($if(toValueType)) {
  __.dl();$___.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
} else {
  __.dl();$___.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
}

__.dl();__.out("  ");
$___.getAttributeBuilderDescriptor().getBuildMethod();
$___.out("() {} ");
___.dl();
if ($if(toValueType))
  __.dl();___.getAttributeBuilderDescriptor().getQualifiedValueToBuilderMethod();
else {
  __.dl();
  final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 =
      $cast($___.getAttributeBuilderDescriptor());
  final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new
          org.immutables.generator.Templates.Fragment(0) {
              @Override public void run(org.immutables.generator.Templates.Invokation __) {
                  __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
                  __.out("  ");
                  __.dl();
              }
          }).__dl();__.dl();
  if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance()))
    __.dl();$___.getAttributeBuilderDescriptor().getQualifiedValueToBuilderMethod();
  else {
    __.dl();
    __.out("  ");
    $(___.getAttributeBuilderDescriptor().getQualifiedValueToBuilderMethod());
  }
} else {
  __.dl();$(___.getAttributeBuilderDescriptor().getQualifiedValueToBuilderMethod());
  __.out("  ");
  $(___.getAttributeBuilderDescriptor().getQualifiedValueToBuilderMethod());
}
public void _t73__collectionUtility(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
}

private static <T> java.util.List<T> createSafeList(Iterable<? extends T> iterable, boolean checkNulls, boolean skipNulls) {
  java.util.ArrayList<T> list;
  if (iterable instanceof java.util.Collection<?>) {
    int size = ((java.util.Collection<?>) iterable).size();
    if (size == 0) return java.util.Collections.emptyList();
    list = new java.util.ArrayList(__, asDiamond, "T");
  } else {
    list = new java.util.ArrayList(__);
  }
  if ($(type.isUseListUtility(), or, $(type.isUseSetUtility(), or, $(type.isUseEnumSetUtility(), or, 
    type.isUseSortedSetUtility())))) {
    private static <T> java.util.List<T> createSafeList(Iterable<? extends T> iterable, boolean checkNulls, boolean skipNulls) {
      java.util.ArrayList<T> list;
      if (iterable instanceof java.util.Collection<?>) {
        int size = ((java.util.Collection<?>) iterable).size();
        if (size == 0) return java.util.Collections.emptyList();
        list = new java.util.ArrayList(__, asDiamond, "T");
      } else {
        list = new java.util.ArrayList(_);
      }
      return list;
    }
  } else {
    return list.build();
  }
}

public org.immutables.generator.Templates.Invokable collectionUtility() {
  return collectionUtility;
}

private final org.immutables.generator.Templates.Invokable collectionUtility = new FragmentDispatch(1, 73);
if (type.isUseListUtility()) {
  switch(list.size()) {
  case 0: return java.util.Collections.emptyList();
  case 1: return java.util.Collections.singletonList(list.get(0));
  default:
    if (clone) {
      return java.util.Collections.unmodifiableList(new java.util.ArrayList<T>(list));
    } else {
      if (list instanceof java.util.ArrayList<?>) {
        ((java.util.ArrayList<?>) list).trimToSize();
      }
      return java.util.Collections.unmodifiableList(list);
    }
  }
  return java.util.Collections.unmodifiableList(new java.util.ArrayList<T>(list));
}
}

if (type.isUseSetUtility()) {
  switch(list.size()) {
  case 0: return java.util.Collections.emptySet();
  case 1: return java.util.Collections.singleton(list.get(0));
  default:
    if (clone) {
      return java.util.Collections.unmodifiableSet(list);
    } else {
      if (list instanceof java.util.ArrayList<?>) {
        ((java.util.ArrayList<?>) list).trimToSize();
      }
      return java.util.Collections.unmodifiableSet(list);
    }
  }
  return java.util.Collections.unmodifiableSet(list);
@SuppressWarnings("unchecked")
private static <T extends Enum<T>> java.util.Set<T> createUnmodifiableEnumSet(Iterable<T> iterable)
{
  if (iterable instanceof java.util.EnumSet<?>) {
    return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf((java.util.EnumSet<T>)
iterable));
  }
  java.util.List<T> list = createSafeList(iterable, true, false);
  switch(list.size()) {
  case 0: return java.util.Collections.emptySet();
  case 1: return java.util.Collections.singleton(list.get(0));
  default: return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf(list));
  }
}

if ($if(type.isUseSortedSetUtility())) {
final org.immutables.generator.Templates.Invokable unmodifiableSortedSetInterface = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable unmodifiableSortedSetInterface = this;
  }
} else 

```java
private static <T extends Comparable<T>> java.util.Set<T> createUnmodifiableSortedSet(boolean reverse, java.util.List<T> list) {
  java.util.TreeSet<T> set = reverse ? new java.util.TreeSet<>(java.util.Collections.reverseOrder()) : new java.util.TreeSet<>();
  set.addAll(list);
  return java.util.Collections.unmodifiableSet(set);
}

if ($if(type.isUseMapUtility())) {
    switch (map.size()) {
    case 0: return java.util.Collections.emptyMap();
    case 1: {
      java.util.Map.Entry<? extends K, ? extends V> e = map.entrySet().iterator().next();
      K k = e.getKey();
      V v = e.getValue();
      if (checkNulls) {
        requireNonNull(type, k, "key");
        requireNonNull(type, v, "value");
      }
      return java.util.Collections.unmodifiableMap(java.util.Collections.singletonMap(k, v));
    }
    }
  }
} else {
  __dl();__ln();
  __dl();__ln();
  __dl();
} __ln();
```
```java
    if (skipNulls && (k == null || v == null)) {
      return java.util.Collections.emptyMap();
    }
    return java.util.Collections.singletonMap(k, v);
  }
  default: {
    java.util.Map<K, V> linkedMap = new java.util.LinkedHashMap((map.size());
    if (skipNulls || checkNulls) {
        K k = e.getKey();
        V v = e.getValue();
        if (skipNulls) {
          if (k == null || v == null) continue;
        } else if (checkNulls) {
          requireNonNull(k, "key");
          requireNonNull(v, "value");
        }
        linkedMap.put(k, v);
      }
    } else {
      linkedMap.putAll(map);
    }
    return java.util.Collections.unmodifiableMap(linkedMap);
  }
}
```java
__out("(java.util.Collections.reverseOrder())").ln();
__out("    : new java.util.TreeMap()");
$___.asDiamond, "K, V");
__out("();").ln();
__ln();
__out(" if (checkNulls || skipNulls) {").ln();
__out("      K k = e.getKey();").ln();
__out("      V v = e.getValue();").ln();
__out("      if (skipNulls) {").ln();
__out("        if (k == null || v == null) continue;").ln();
__out("      } else if (checkNulls) {").ln();
__out("    }");
$___.requireNonNull, type);
__out("(k, "key");").ln();
__out("(v, "value");").ln();
__out("sortedMap.put(k, v);").ln();
__out("}").ln();
__out("}").ln();
__out("return java.util.Collections.unmodifiable");
$___.unmodifiableSortedMapInterface);
__out("(sortedMap)");
__out(""");
}
__dl();__ln();
__dl();
};

public org.immutables.generator.Templates.Invokable javadocGenerics() { return javadocGenerics; }
private final org.immutables.generator.Templates.Invokable javadocGenerics = new FragmentDispatch(1, 74);
void _t74__javadocGenerics(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String p : $in(type.generics().vars())) {
__dl();__ln();
__out("  * @param <");
$___.p);
__out("generic parameter");
$___.p);
__ln();
__dl();_it1.index++;
```
__it1.first = false;
}
__dl();__ln();
__dl();
}

org.immutables.generator.Templates.Invokable defineOrResetBuildingField() { return defineOrResetBuildingField;
}
private final org.immutables.generator.Templates.Invokable defineOrResetBuildingField = new
FragmentDispatch(2, 75);
void _t75__defineOrResetBuildingField(org.immutables.generator.Templates.Invocation __) {
__dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
final java.lang.Boolean declare = $if(__.param(1));
$(__, defineOrResetBuildingFieldAlt, v, declare, $$false);
__dl();
};

org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt() { return
defineOrResetBuildingFieldAlt; }
private final org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt = new
FragmentDispatch(3, 76);
void _t76__defineOrResetBuildingFieldAlt(org.immutables.generator.Templates.Invocation __) {
__dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
final java.lang.Boolean declare = $if(__.param(1));
final java.lang.Boolean toNull = $if(__.param(2));
__ln();
final org.immutables.generator.Templates.Invokable accessModifier = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable accessModifier = this;
__dl();
if ($if(v.containingType.getInnerBuilder().isAccessibleFields)) {
__dl();__out("protected");
} else {
__dl();__out("private");
}
__dl();__dl();
} };__dl();__ln();
final org.immutables.generator.Templates.Invokable updatableAccessModifier = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable updatableAccessModifier = this;
__dl();
if ($if($(v.containingType.isUseStrictBuilder(), andnot, toNull))) {
__dl();__out("final");
} else {
__dl();__out("null");
}
__dl();__dl();
} };__dl();__ln();
final org.immutables.generator.Templates.Invokable updatableAccessModifier = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable updatableAccessModifier = this;
$__(__, accessModifier);
__dl();
if ($if($v.containingType.isUseStrictBuilder(), andnot, toNull))) {
__dl();__out(" final");
} else {
__dl();__out("null");
}
__dl();__dl();
} };__dl();__ln();
if ($(v.isJdkOptional(), and, v.containingType.kind().isFactory())) {
    if (declare) {
        accessModifier;
        v.getType();
        out(" ");
    } else {
        this.
    }
    name();
    out(" = ");
}

if ($(a_optionalEmpty_1867206284.isJdkOptional())) {
    out("empty");
} else if ($(a_optionalEmpty_1867206284.isFugueOptional(), or,
    a_optionalEmpty_1867206284.isJavaslangOptional())) {
    out("none");
} else { out("absent");

} out("()");

out(";
    out(" ");
} else if ($(v.isJdkOptional(), and, v.isAttributeBuilder())) {
    if (declare) {
        accessModifier;
    }
    out(" ");
}
final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
__dl();__out("javax.annotation.Nullable");
}
__dl();
}
}
final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
${(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
__out(" ");
${(__, v.name());
__out(";").ln();
__out(" ");
}
__dl();__ln();
__out("this.");
${(__, v.name());
__out(" = null;").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
} else if ($if(v.isJdkOptional())) {
__dl();__dl();__ln();
__out(" ");
__dl();
if ($if(declare)) {
__dl();__ln();
${(__, accessModifier);
__out(" ");
}
final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
__dl();__out("javax.annotation.Nullable");
}
__dl();
${(__, v.getWrappedElementType());
__out(" ");
${(__, v.name());
__out(";").ln();
__out("   ");

} else {
__dl();__ln();
__out("this.");
$__ v.name();
__out(" = null;");ln();
__out("   ");

}
__dl();__ln();
__out("   ");
} else if ($if(v.isContainerType())) {
__dl();__ln();
__out("   ");
__dl();
if ($if(v.isGenerateJdkOnly())) {
__dl();__ln();
__out("   ");
__dl();
if ($if(v.isOptionalType())) {
__dl();__ln();
__dl();
if ($if(declare)) {
__dl();$__ accessModifier);
__out("   ");
$__ v.getType();
__out("   ");
}
} else {
__dl();__out("this.");

}
__dl();$__ v.name();
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$__ a_optionalEmpty_1867206284.getRawType();
__out(".");
__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
__dl();__out("empty");
} else if ($if(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional())) {
__dl();__out("none");
}
} else {
__dl();__out("absent");
if ($if($not, $(declare, or, v.isNullableCollector()))))
    __dl(); __ln();
    __out("this.");
    $(__, v.name());
    __out("clear();").ln();
    __out(" ");
} else if ($if(v.isGenerateEnumMap()))
    __dl(); __ln();
    __dl();
    if ($if(declare))
        __dl(); $(__, updatableAccessModifier);
        __out(" java.util.EnumMap<");
        $(__, v.getWrappedElementType());
        __out(",");
        $(__, v.getWrappedSecondaryElementType());
        __out(">");
    } else {
        __dl(); __out("this.");
    }
    __dl(); $(__, v.name());
    __out(" = ");
    __dl();
    if ($if(toNull))
        __dl(); __out("null");
    } else {
        __dl(); __out("new java.util.EnumMap<");
        $(__, v.getWrappedElementType());
        __out(",");
        $(__, v.getWrappedSecondaryElementType());
        __out(">");
        $(__, v.getWrappedElementType());
        __out(".
class");
    }
    __dl(); __out(";").ln();
    __out(" ");
} else if ($if(v.isMapType()))
    __dl(); __ln();
    __dl();
}
if ($if(declare)) {
    __dl();$___.updatableAccessModifier();
    __out(" java.util.Map<");
    $___.v.getWrappedElementType();
    __out(" , ");
    $___.v.getWrappedSecondaryElementType();
    __out(" > ");
}
else {
    __dl();___.out("this.");
    __dl();$___.v.name();
    __out(" = ");
    __dl();
    if ($if(toNull)) {
        __dl();___.out("null");
    } else {
        __dl();___.out("new java.util.LinkedHashMap<");
        $___.v.getWrappedElementType();
        __out(" , ");
        $___.v.getWrappedSecondaryElementType();
        __out(">()");
        __dl();___.out(";").ln();
        __out(";").ln();
    } else if ($if(v.isGenerateEnumSet())) {
        __dl();___.ln();
        __dl();
        if ($if(declare)) {
            __dl();$___.updatableAccessModifier();
            __out(" java.util.EnumSet");
            $___.v.getGenericArgs();
            __out(" ");
        } else {
            __dl();___.out("this.");
        }
        __dl();$___.v.name();
        __out(" = ");
        __dl();
        if ($if(toNull)) {
            __dl();___.out("null");
        } else {
        }
    } else {
        __dl();___.out("this.");
    }
}
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```java
__(dl); __out("java.util.EnumSet.noneOf(");
$(__, v.getElementType());
__out(", class")
} }
__(dl); __out(";").ln();
__out(""");
}
else {
__dl(); __ln();
__out(" ");
__dl();
if ($if(v.isAttributeBuilder())) {
__dl(); __ln();
__dl();
if ($if(declare)) {
__dl(); $(__, updatableAccessModifier);
__out(" java.util.List<");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(">");
} else {
__dl(); __out("this.");
}
__dl(); $(__, v.name());
__out(" = ");
__dl();
if ($if(toNull)) {
__dl(); __out("null");
} else {
__dl(); __out("new java.util.ArrayList<");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(">");
}
__dl(); __out(";").ln();
__out(" ");
```
} else {
  __dl();__ln();
  __dl();
  if ($if(declare)) {
    __dl();$___.updatableAccessModifier();
    __out(" java.util.List");
    ___.v.getGenericArgs();
    __out(" ");
  } else {
    __dl();__out("this.");
  }
  __dl();$___.v.name();
  __out(" = ");
  __dl();
  if ($if(toNull)) {
    __dl();__out("null");
  } else {
    __dl();__out("new java.util.ArrayList");
    ___.v.getGenericArgs();
    __out("()");  
  }
  __dl();__out(";").ln();
  __out(" ");

  __dl();__ln();
  __out(" ");

  __dl();__ln();
  __out(" ");

  } else {
    __dl();__ln();
    __out(" ");

    } else {
    __dl();__ln();
    __out(" ");

    } else {
    __dl();__ln();
    __out(" ");

    }

    } else {
    __dl();__ln();
    __out(" ");

    }

    } else {
    __dl();__ln();
    __out(" ");

    }

    } else {
    __dl();
    if ($if(v.isGenerateSortedSet())) {
      __dl();__ln();
      __dl();
      if ($if(declare)) {
        __dl();$(___.updatableAccessModifier)
        __out(" ");
        $(___.guava)
        __out(".collect.ImmutableSortedSet.Builder");
      }
$(___. v.getGenericArgs());
___.out(" ");
}

} else {
    ___.dl();___.out("this.");
    }

    ___.dl();$(___. v.name());
    ___.out(" = ");
    ___.dl();
    if ($if(toNull)) {
        ___.dl();___.out("null");
    }
}

} else {
    ___.dl();$___. guava);
    ___.out(".collect.ImmutableSortedSet.");
    ___.dl();
    if ($if(v.hasNaturalOrder())) {
        ___.dl();___.out("naturalOrder");
    }
}

} else {
    ___.dl();___.out("reverseOrder");
    }

    ___.dl();___.out("()");
}
    ___.dl();___.out("; ").ln();
    ___.out(" ");
} else if ($if(v.isGenerateSortedMultiset())) {
    ___.dl();___.ln();
    ___.dl();
    if ($if(declare)) {
        ___.dl();$___. updatableAccessModifier;
        ___.out(" ");
        $(___. guava);
        ___.out(".collect.ImmutableSortedMultiset.Builder");
        $(___. v.getGenericArgs());
        ___.out(" ");
    }
    }
}

} else {
    ___.dl();___.out("this.");
    }

    ___.dl();$(___. v.name());
    ___.out(" = ");
    ___.dl();
    if ($if(toNull)) {

null

if (v.hasNaturalOrder())

reverseOrder()

();

Builder()

.toNull();

Builder();
if ($if(v.isAttributeBuilder())) {
    __.dl();___.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$___.updatableAccessModifier);
        __.out(" ");
        $(___.guava);
        __.out("collect.Immutable");
        $(___.v.getRawCollectionType());
        __.out("Builder<");
        {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_attributeBuilderBuilderType_1431666641 = ___.v.getAttributeBuilderDescriptor();
            $(___.n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
        }
        __.out(">");
    } else {
        __.dl();___.out("this.");
    }
    __.dl();$(___.v.name());
    __.out(" = ");
    __.dl();
    if ($if(toNull)) {
        __.dl();___.out("null");
    } else {
        __.dl();$(___.guava);
        __.out("collect.Immutable");
        $(___.v.getRawCollectionType());
        __.out("builder()");
    }
    __.dl();___.out(";").ln();
    __.out(" ");
} else {
    __.dl();___.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$(___.updatableAccessModifier);
        __.out(" ");
        $(___.guava);
        __.out("collect.Immutable");
        $(___.v.getRawCollectionType());
    } else {
        __.dl();___.ln();
        __.dl();
        if ($if(toNull)) {
            __.dl();___.out("null");
        } else {
            __.dl();$(___.guava);
            __.out("collect.Immutable");
            $(___.v.getRawCollectionType());
        }
    }
}
\.out(".Builder");
$\_\_$.v.getGenericArgs();
\.out(" ");

} else {
\_.dl();\.out("this.");

}
\_.dl();$\_\_$.v.name();
\.out(" = ");
\_.dl();
if ($if(toNull)) {
\_.dl();\.out("null");

} else {
\_.dl();$\_\_$.guava;
\.out(".collect.Immutable");
$\_\_$.v.getRawCollectionType();
\.out(".builder()");

}
\_.dl();\.out(";").ln();
\.out(" ");

}
\_.dl();\.ln();
\.out(" ");
} else if ($if(v.isOptionalType())) {
\_.dl();\.ln();
\_.dl();
if ($if(declare)) {
\_.dl();$\_\_$.accessModifier;
\.out(" ");
$\_\_$.v.getType();
\.out(" ");

}
\_.dl();\.out("this.");

}
\_.dl();$\_\_$.v.name();
\.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$\_\_$.a_optionalEmpty_1867206284.getRawType();
\.out(".");
\_.dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
\_.dl();\.out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()))) {
  __.dl();__.out("none");
}

} else {
  __.dl();__.out("absent");
}

__.dl();__.out("()");

__.out(";").ln();
__.out(" ");
} else if ($if(v.isGenerateSortedMap())) {
  __.dl();__.ln();
  __.dl();
  if ($if(declare)) {
    __.dl();$(__, updatableAccessModifier);
    __.out(" ");
    $(__, guava);
    __.out("collect.ImmutableSortedMap.Builder");
    $(__, v.getGenericArgs());
    __.out(" ");
  }
  else {
    __.dl();__.out("this.");
  }

  __.dl();$(__, v.name());
  __.out(" = ");
  __.dl();
  if ($if(toNull)) {
    __.dl();__.out("null");
  }
  else {
    __.dl();$(__, guava);
    __.out("collect.ImmutableSortedMap.");
    __.dl();
    if ($if(v.hasNaturalOrder())) {
      __.dl();__.out("naturalOrder");
    }
    else {
      __.dl();__.out("reverseOrder");
    }

  }

  __.dl();__.out("()");
}
if ($if(v.isMapType())) {
  __.dl();___.ln();
  __.dl();
  if ($if(declare)) {
    __.dl();$___.updatableAccessModifier);
    __.out(" ");
    $___.guava);
    __.out(".collect.Immutable");
    $___.v.getRawMapType());
    __.out(".Builder");
    $___.v.getGenericArgs());
    __.out(" ");
  }
  else {
    __.dl();___.out("this.");
    } else {
    __.dl();$___.v.name());
    __.out(" = ");
    __.dl();
    if ($if(toNull)) {
      __.dl();___.out("null");
      } else {
        __.dl();$___.guava);
        __.out(".collect.Immutable");
        $___.v.getRawMapType());
        __.out(".builder()");
    } __.dl();___.out(";").ln();
        __.out(" ");
  } __.dl();___.ln();
        __.out(" ");
  } else if ($if(v.isPrimitive())) {
    __.dl();___.ln();
    __.out(" ");
  } else if ($if(v.isPrimitive())) {
    __.dl();___.ln();
    __.out(" ");
  } else if ($if(v.isMapType())) {
    __.dl();___.ln();
    __.dl();
    if ($if(declare)) {
      __.dl();$___.updatableAccessModifier);
      __.out(" ");
      $___.guava);
      __.out(".collect.Immutable");
      $___.v.getRawMapType());
      __.out(".Builder");
      $___.v.getGenericArgs());
      __.out(" ");
    }
    else {
      __.dl();___.out("this.");
      }
  }
}
$(__, accessModifier);
__out(" ");
$__ v.getType();
__out(" ");
$__ v.name();
__out(";").ln();
__out(" ");
} else if ($if(v.isBoolean())) {
__dl();__ln();
__out("this.");
$__ v.name();
__out(" = false;").ln();
__out(" ");
}
} else {
__dl();__ln();
__out("this.");
$__ v.name();
__out(" = 0;").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
} else if ($if(v.isAttributeBuilder())) {
__dl();__ln();
__out(" ");
__dl();
if ($if(declare)) {
__dl();__ln();
$__ v.name();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
__dl();__out("@javax.annotation.Nullable ");

}
__dl();
}
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
__dl();__out("@javax.annotation.Nullable ");

}
__dl();
}

}
org.immutables.generator.Templates.Invokable createBuilderForCollection() { return createBuilderForCollection; }
private final org.immutables.generator.Templates.Invokable createBuilderForCollection = new FragmentDispatch(3, 77);
void _t77__createBuilderForCollection(org.immutables.generator.Templates.Invokation __) {
  _.dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(1));
  final java.lang.String variableName = __.param(2).toString();
  _.ln();
  _.dl();
  if ($if(a.isMapType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
    if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
      _.dl();
      _.ln();
      _.out("  ");
      _.dl();
      if ($if(a.getRawMapType().isGenerateJdkOnly())) {
        _.dl();
        _.ln();
        _.out("  ");
        _.dl();
        $.(__, a.getGenericArgs());
        _.out(" ");
        $.(__, variableName);
        _.out(" = new java.util.LinkedHashMap");
        $.(__, a.getGenericArgs());
        _.out("();").ln();
      } else {
        _.dl();
        _.ln();
        $.(__, guava);
        _.out(" .collect.Immutable");
        $.(__, a.getRawMapType());
        _.out(".Builder");
        $.(__, a.getGenericArgs());
        _.out(" ");
        $.(__, variableName);
        _.out(" = ");
        $.(__, guava);
        _.out(" .collect.Immutable");
        $.(__, a.getRawMapType());
        _.out(".builder();").ln();
        _.out(" ");
      }
    } else {
      _.dl();
      _.ln();
      $.(__, guava);
      _.out(" .collect.Immutable");
      $.(__, a.getRawMapType());
      _.out(".builder();").ln();
      _.out(" ");
    }
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
    _.dl();
    _.ln();
    _.out("  ");
    _.dl();
  } else if ($if(a.isCollectionType())) {
if ($if(a.isCustomCollectionType()) {
  __dl();__ln();
  $(__, a.getRawType());
  __out(".Builder");
  $(__, a.getGenericArgs());
  __out(" ");
  $(__, variableName);
  __out(" = ");
  $(__, a.getRawType());
  __out(".builder();").ln();
  __out(" ");
} else if ($if($if(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind())}) {
  __dl();__ln();
  __out("java.util.List");
  $(__, a.getGenericArgs());
  __out(" ");
  $(__, variableName);
  __out(" = new java.util.ArrayList");
  $(__, a.getGenericArgs());
  __out(";").ln();
  __out(" ");
} else {
  __dl();__ln();
  $(__, guava);
  __out(".collect.Immutable");
  $(__, a.getRawCollectionType());
  __out(".Builder");
  $(__, a.getGenericArgs());
  __out(" ");
  $(__, variableName);
  __out(" = ");
  $(__, guava);
  __out(".collect.Immutable");
  $(__, a.getRawCollectionType());
  __out(".builder();").ln();
  __out(" ");
}
__dl();__ln();
}

org.immutables.generator.Templates.Invokable createBuiltCollection() { return createBuiltCollection; }
private final org.immutables.generator.Templates.Invokable createBuiltCollection = new FragmentDispatch(3, 78);
void _t78__createBuiltCollection(org.immutables.generator.Templates.Invokation __) {
  __._dl();
  final org.immutables.value.processor.meta.ValueType type = __._cast(__._param(0));
  final org.immutables.value.processor.meta.ValueAttribute a = __._cast(__._param(1));
  final java.lang.String variableName = __._param(2).toString();
  ${__._output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __._dl();
      __._ln();
      if ($if($(a.isMapType(), or, a.isCollectionType()))) {
        __._dl();
        __._ln();
        __._out("  ");
        if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
          __._dl();
          __._ln();
          __._out("    ");
          $(__._output, variableName);
          __._ln();
          __._out("  ");
        } else {
          __._dl();
          __._ln();
          __._out("    ");
          $(__._output, variableName);
          __._ln();
          __._out("  ");
        }
      } else {
        __._dl();
        __._ln();
        __._out("  ");
        $(__._output, variableName);
        __._ln();
      }
      __._dl();
    }
  };
  __._dl();
};

org.immutables.generator.Templates.Invokable serialVersionUID() {
  return serialVersionUID;
}
private final org.immutables.generator.Templates.Invokable serialVersionUID = new FragmentDispatch(1, 79);
void _t79__serialVersionUID(org.immutables.generator.Templates.Invokation __) {
  __._dl();
  final org.immutables.value.processor.meta.ValueType type = __._cast(__._param(0));
  __._ln();
}
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final java.lang.Long serialVersion = $cast(type.serialVersionUID());
__dl();__ln();
__out("  ");
__dl();
if ($if(serialVersion)) {
__dl();__ln();
__ln();
__out("private static final long serialVersionUID = ");
$(__, literal, serialVersion);
__out(";").ln();
__out(" ");
}
__dl();__ln();__ln();
__it1.index++;__it1.first = false;
}
__dl();__ln();
org.immutables.generator.Templates.Invokable suppressCovariantCastForOptional() { return suppressCovariantCastForOptional; }
private final org.immutables.generator.Templates.Invokable suppressCovariantCastForOptional = new FragmentDispatch(1, 80);
void _t80__suppressCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
__ln();
__dl();
if ($if(a.isSafeUncheckedCovariantCast())) {
__dl();__ln();
__out("@SuppressWarnings("unchecked") // safe covariant cast").ln();
}
__dl();__ln();
__dl();
}
org.immutables.generator.Templates.Invokable suppressAnyCovariantCastForOptional() { return suppressAnyCovariantCastForOptional; }
private final org.immutables.generator.Templates.Invokable suppressAnyCovariantCastForOptional = new FragmentDispatch(1, 81);
void _t81__suppressAnyCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
__dl();final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> as = $cast(__.param(0));
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(as)) {
if ($if(a.isSafeUnCheckedCovariantCast())) {
  __dl();__ln();
  __dl();
  if ($if(_it1.first)) {
    __dl();__ln();
    __out("@SuppressWarnings("unchecked") // safe covariant cast").ln();
  }
  __dl();__ln();
  __dl();__ln();
  __dl();
  __dl();__ln();
  __dl();
  __dl();
}
__dl();__ln();
__dl();
__dl();
__dl();
__dl();

org.immutables.generator.Templates.Invokable eachLine() { return eachLine; }
private final org.immutables.generator.Templates.Invokable eachLine = new FragmentDispatch(1, 82);
void _t82__eachLine(org.immutables.generator.Templates.Invokable __) {
  __dl();final java.lang.Iterable<java.lang.Object> lines = $cast(__.param(0));
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final java.lang.Object l : $in(lines)) {
     __dl();__ln();
     $(__, l);
     __ln();
     __dl();__ln();
     __dl();
   }
  }
__dl();__ln();
__dl();

org.immutables.generator.Templates.Invokable atGenerated() { return atGenerated; }
private final org.immutables.generator.Templates.Invokable atGenerated = new FragmentDispatch(1, 83);
void _t83__atGenerated(org.immutables.generator.Templates.Invocation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if($(type, allowsClasspathAnnotation, "org.immutables.value.Generated"))) {
    __dl();__ln();
    __out("@org.immutables.value.Generated(from = "");
    $(__, type.typeAbstract().relativeRaw());
    __out("", generator = "\"Immutables\"")
  }
  __dl();__ln();
  __dl();
}
org.immutables.generator.Templates.Invokable atElementNullable() { return atElementNullable; }
private final org.immutables.generator.Templates.Invokable atElementNullable = new FragmentDispatch(1, 84);
void _t84__atElementNullable(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __.dl();
    if ($if(!$not, a.nullElements)) {
        __.dl();{ final org.immutables.value.processor.meta.HasStyleInfo s_atNullable = $cast(a);
            __.dl();
            if ($if(s_atNullable, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
                __.dl();__out("@javax.annotation.Nullable");
            }
            __.dl();
        }
    }
    __.dl();__dl();
}
org.immutables.generator.Templates.Invokable topSimplePrefix() { return topSimplePrefix; }
private final org.immutables.generator.Templates.Invokable topSimplePrefix = new FragmentDispatch(1, 85);
void _t85__topSimplePrefix(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if(topLevelSimple)) {
        __.dl();$__(__, topLevelSimple);
        __out(".");
    } else {
        __.dl();$__(__, type.getTopSimple());
        __out(".");
    }
    __.dl();__dl();
};
org.immutables.generator.Templates.Invokable maybeCopyOf() { return maybeCopyOf; }
private final org.immutables.generator.Templates.Invokable maybeCopyOf = new FragmentDispatch(2, 86);
void _t86__maybeCopyOf(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    __.dl();
    if ($if(v.isGenerateImmutableCopyOf)) {
        __.dl();__out("immutableCopyOf(");
        $(__, expression);
        __out("\n");
    } else {

org.immutables.generator.Templates.Invokable maybeNonNullValue() { return maybeNonNullValue; }
private final org.immutables.generator.Templates.Invokable maybeNonNullValue = new FragmentDispatch(2, 87);
void _t87__maybeNonNullValue(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.String expression = __.param(1).toString();
    __.dl();if ($if($(v.isPrimitive(), or, v.isNullable()))) {
        __.dl();$___.dl();$(__, expression);
    } else {
        __.dl();$___.dl();$(__, requireNonNull, v.containingType);
        __.dl();$___.dl();$(__, expression);
        __.dl();$___.dl();$(__, v.name());
        __.dl();$___.dl();$(__, v.name());
    }
    __.dl();$___.dl();
};

org.immutables.generator.Templates.Invokable builderReturnThis() { return builderReturnThis; }
private final org.immutables.generator.Templates.Invokable builderReturnThis = new FragmentDispatch(1, 88);
void _t88__builderReturnThis(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();if ($if(type.getInnerBuilder().isExtending)) {
        __.dl();$___.dl();$(__, type.typeBuilder());
        __.dl();$___.dl();$(__, type.typeBuilder());
        __.dl();$___.dl();$(__, type.typeBuilder());
    }
    __.dl();$___.dl();
};

org.immutables.generator.Templates.Invokable builderReturnType() { return builderReturnType; }
private final org.immutables.generator.Templates.Invokable builderReturnType = new FragmentDispatch(1, 89);
void _t89__builderReturnType(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();if ($if(type.getInnerBuilder().isExtending)) {
        __.dl();$___.dl();$(__, type.typeBuilder());
        __.dl();$___.dl();$(__, type.typeBuilder());
        __.dl();$___.dl();$(__, type.typeBuilder());
    }
org.immutables.generator.Templates.Invokable builderInitAccess() { return builderInitAccess; }
private final org.immutables.generator.Templates.Invokable builderInitAccess = new FragmentDispatch(1, 93);
void _t93__builderInitAccess(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __dl();
    if ($if($(a.isBuilderParameter, or, a.isBuilderSwitcher()))) {
        __dl();__dl();
        if ($if(a.containingType.kind().isFactory())) {
            __dl();__out("private ");
        }
        __dl();
    } else {
        __dl();$__ a.getIntializerAccess());
    }
    __dl();__dl();
}
org.immutables.generator.Templates.Invokable invokeSuper() { return invokeSuper; }
private final org.immutables.generator.Templates.Invokable invokeSuper = new FragmentDispatch(1, 94);
void _t94__invokeSuper(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.lang.String di = $cast(a.defaultInterface());
    __dl();__dl();
    if ($if(di)) {
        __dl();$__ _it1.index++;
        _it1.first = false;
    }
    __dl();__out("super");
    __dl();
}
org.immutables.generator.Templates.Invokable invokeSuperQualified() { return invokeSuperQualified; }
private final org.immutables.generator.Templates.Invokable invokeSuperQualified = new FragmentDispatch(1, 95);
void _t95__invokeSuperQualified(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$___.out("super");
___.dl();
}

org.immutables.generator.Templates.Invokable sourceDocRef() { return sourceDocRef; }
private final org.immutables.generator.Templates.Invokable sourceDocRef = new FragmentDispatch(1, 96);
void _t96__sourceDocRef(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocLink_990947650 = $cast(a);
   final java.lang.String label_sourceDocLink_990947650 = $cast(a.names.raw);
   __.dl();
   if ($if(a_sourceDocLink_990947650.containingType.kind().isValue())) {
     __.dl();__.out("{@link ");
     $(__, a_sourceDocLink_990947650.containingType.typeDocument().relativeRaw());
     __.out("#");
     $(__, a_sourceDocLink_990947650.names.get);
     __.out("() ");
     $(__, label_sourceDocLink_990947650);
     __.out("}"");
   } else {
     __.dl();__.out("{@code ");
     $(__, label_sourceDocLink_990947650);
     __.out("}"");
   }
  }
___.dl();
}
___.dl();

org.immutables.generator.Templates.Invokable sourceDocLink() { return sourceDocLink; }
private final org.immutables.generator.Templates.Invokable sourceDocLink = new FragmentDispatch(2, 97);
void _t97__sourceDocLink(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String label = __.param(1).toString();
  __.dl();
  if ($if(a.containingType.kind().isValue())) {
    __.dl();__.out("{@link ");
    $(__, a.containingType.typeDocument().relativeRaw());
    __.out("#");
    $(__, a.names.get);
    __.out("() ");
    $(__, label);
    __.out("}"");
  } else {

org.immutables.generator.Templates.Invokable optionalGet() { return optionalGet; }
private final org.immutables.generator.Templates.Invokable optionalGet = new FragmentDispatch(1, 98);
void _t98__optionalGet(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __dl();
  if ($if(a.isJdkSpecializedOptional())) {
    __dl();__out("getAs");
    $(__, toUpper, a.getElementType());
  } else {
    __dl();__out("get");
  }
  __dl();__out("()”);
  __dl();
}

org.immutables.generator.Templates.Invokable optionalEmpty() { return optionalEmpty; }
private final org.immutables.generator.Templates.Invokable optionalEmpty = new FragmentDispatch(1, 99);
void _t99__optionalEmpty(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __dl();
  if ($if(a.isJdkOptional())) {
    __dl();__out("empty");
  } else if ($if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
    __dl();__out("none");
  } else {
    __dl();__out("absent");
  }
  __dl();__out("()”);
  __dl();
}

org.immutables.generator.Templates.Invokable optionalOf() { return optionalOf; }
private final org.immutables.generator.Templates.Invokable optionalOf = new FragmentDispatch(1, 100);
void _t100__optionalOf(org.immutables.generator.Templates.Invokation __) {
final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$.getRawType();
__.out(".");
__.dl();
if (!$if($(not, a.isOptionalAcceptNullable()))) {
  __.dl();___.dl();
  if (!$if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
    __.dl();___.out("some");
  } else {
    __.dl();___.out("of");
  }
} else if ($if(a.isJdkOptional())) {
  __.dl();__.out("ofNullable");
} else if ($if(a.isFugueOptional())) {
  __.dl();__.out("option");
} else if ($if(a.isJavaslangOptional())) {
  __.dl();__.out("of");
} else {
  __.dl();___.out("fromNullable");
}
__.dl();___.dl();
org.immutables.generator.Templates.Invokable optionalPresent() { return optionalPresent; }
private final org.immutables.generator.Templates.Invokable optionalPresent = new FragmentDispatch(1, 101);
void _t101__optionalPresent(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __.dl();
  if (!$if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
    __.dl();___.out("isDefined");
  } else {
    __.dl();___.out("isPresent");

  }
  __.dl();___.out("()");
  __.dl();
};
org.immutables.generator.Templates.Invokable unwrappedOptionalType() { return unwrappedOptionalType; }
private final org.immutables.generator.Templates.Invokable unwrappedOptionalType = new FragmentDispatch(1, 102);
void _t102__unwrappedOptionalType(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
if (a.isOptionalType(), and, a.isOptionalAcceptNullable())
    {final org.immutables.value.processor.meta.HasStyleInfo s = $cast(a);
     __.out("@javax.annotation.Nullable ");
}

if (s.allowsClasspathAnnotation, "javax.annotation.Nullable")
    {__._t104__atNullable(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@javax.annotation.Nullable ");
    }

    org.immutables.generator.Templates.Invokable atVar() { return atVar; }
    private final org.immutables.generator.Templates.Invokable atVar = new FragmentDispatch(1, 105);
    void __.t105__atVar(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@javax.annotation.Nullable ");
    }

    org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue() { return atCanIgnoreReturnValue; }
    private final org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue = new FragmentDispatch(1, 103);
    void __.t103__atCanIgnoreReturnValue(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }

    org.immutables.generator.Templates.Invokable atNullable() { return atNullable; }
    private final org.immutables.generator.Templates.Invokable atNullable = new FragmentDispatch(1, 104);
    void __.t104__atNullable(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@javax.annotation.Nullable ");
    }

    org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue() { return atCanIgnoreReturnValue; }
    private final org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue = new FragmentDispatch(1, 103);
    void __.t103__atCanIgnoreReturnValue(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }

    org.immutables.generator.Templates.Invokable atNullable() { return atNullable; }
    private final org.immutables.generator.Templates.Invokable atNullable = new FragmentDispatch(1, 104);
    void __.t104__atNullable(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
     __.out("@javax.annotation.Nullable ");
    }

    org.immutables.generator.Templates.Invokable atVar() { return atVar; }
    private final org.immutables.generator.Templates.Invokable atVar = new FragmentDispatch(1, 105);
    void __.t105__atVar(org.immutables.generator.Templates.Invokation __) {
     final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
if ($if($(s, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
    __.dl();___.out("@com.google.errorprone.annotations.Var ");
}
}
___.dl();___.dl();
}

org.immutables.generator.Templates.Invokable disambiguateFieldRep() { return disambiguateFieldRep; }
private final org.immutables.generator.Templates.Invokable disambiguateFieldRep = new FragmentDispatch(3, 106);
void t106__disambiguateFieldRep(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.String name = __.param(1).toString();
    final java.lang.String replacer = __.param(2).toString();
    $(__, name);
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
            if ($if($(v.name(), eq, name))) {
                __.dl();$___.out("$$");
                __.dl();_it1.index++;
                _it1.first = false;
            }}
    }
    __.dl();___.dl();
    }

org.immutables.generator.Templates.Invokable disambiguateField() { return disambiguateField; }
private final org.immutables.generator.Templates.Invokable disambiguateField = new FragmentDispatch(2, 107);
void t107__disambiguateField(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.String name = __.param(1).toString();
    $(__, name);
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
            if ($if($(v.name(), eq, name))) {
                __.dl();___.out("$\$");
                __.dl();_it1.index++;
                _it1.first = false;
            }}
    }
    __.dl();___.dl();
    }

org.immutables.generator.Templates.Invokable disambiguateAccessor() { return disambiguateAccessor; }
private final org.immutables.generator.Templates.Invokable disambiguateAccessor = new FragmentDispatch(2, 108);
void t108__disambiguateAccessor(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.String name = __.param(1).toString();

$(_, name);
(final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
  if ($if($(v.names.get, eq, name))) {
    __.dl();___.out("$$");
    __.dl();_it1.index++;
    _it1.first = false;
  }
}___.dl();___.dl();
}

org.immutables.generator.Templates.Invokable deprecation() {
  return deprecation;
}
private final org.immutables.generator.Templates.Invokable deprecation = new FragmentDispatch(1, 109);
void _t109__deprecation(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __.dl();
  if ($if(a.deprecated)) {
    __.dl();___.out("@Deprecated");
  }
  __.dl();___.dl();
};

org.immutables.generator.Templates.Invokable typeDeprecation() {
  return typeDeprecation;
}
private final org.immutables.generator.Templates.Invokable typeDeprecation = new FragmentDispatch(1, 110);
void _t110__typeDeprecation(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType t = $cast(__.param(0));
  __.dl();
  if ($if(t.isDeprecated())) {
    __.dl();___.out("@Deprecated");
  }
  __.dl();___.dl();
};

org.immutables.generator.Templates.Invokable varargsSafety() {
  return varargsSafety;
}
private final org.immutables.generator.Templates.Invokable varargsSafety = new FragmentDispatch(1, 111);
void _t111__varargsSafety(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __.dl();
  if ($if($(a.isNonRawElementType(), or, a.hasTypeVariables))) {
    __.dl();___.out("@SafeVarargs @SuppressWarnings("varargs")");
  }
  __.dl();___.dl();
};

org.immutables.generator.Templates.Invokable varargsSafetyAbstract() {
  return varargsSafetyAbstract;
}
org.immutables.generator.Templates.Invokable functionClass() { return functionClass; }
private final org.immutables.generator.Templates.Invokable functionClass = new FragmentDispatch(0, 113);
void _t113__functionClass(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  if (classpath.isJava8()) {
    __.out("java.util.function.Function");
  } else {
    __.out("".base.Function");
  }
  __.dl();
};

org.immutables.generator.Templates.Invokable overrideJsonDeserialize() { return overrideJsonDeserialize; }
private final org.immutables.generator.Templates.Invokable overrideJsonDeserialize = new FragmentDispatch(1, 114);
void _t114__overrideJsonDeserialize(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  if (type.isJacksonDeserialized()) {
    __.out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");
  }
  __.dl();
};

org.immutables.generator.Templates.Invokable overrideJsonTypeInfo() { return overrideJsonTypeInfo; }
private final org.immutables.generator.Templates.Invokable overrideJsonTypeInfo = new FragmentDispatch(1, 115);
void _t115__overrideJsonTypeInfo(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  if (type.isJacksonJsonTypeInfo()) {
    __.out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo");
  }
  __.dl();
};
org.immutables.generator.Templates.Invokable jsonIgnore() { return jsonIgnore; }
private final org.immutables.generator.Templates.Invokable jsonIgnore = new FragmentDispatch(1, 116);
void _t116__jsonIgnore(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if(type.isGenerateJacksonIngoreFields())) {
        __.dl(); __.out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
    __.dl(); __.dl();
}

org.immutables.generator.Templates.Invokable castObject() { return castObject; }
private final org.immutables.generator.Templates.Invokable castObject = new FragmentDispatch(1, 117);
void _t117__castObject(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final java.lang.String typename = __.param(0).toString();
    __.dl();
    if ($if($(typename, ne, "java.lang.Object"))) {
        __.dl(); __.out("(");
        $((__, typename);
        __.out(") ");
    }
    __.dl(); __.dl();
}

org.immutables.generator.Templates.Invokable maybeMasked() { return maybeMasked; }
private final org.immutables.generator.Templates.Invokable maybeMasked = new FragmentDispatch(2, 118);
void _t118__maybeMasked(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    final java.lang.String value = __.param(1).toString();
    __.dl();
    if ($if(a.getRedactedMask())) {
        __.dl(); __.out("(");
        $((__, literal.string, a.getRedactedMask());
    } else {
        __.dl(); $((__, literal.string, a.getRedactedMask()));
    }
    __.dl(); __.dl();
}
org.immutables.generator.Templates.Invokable hiddenMutableState() { return hiddenMutableState; }
private final org.immutables.generator.Templates.Invokable hiddenMutableState = new FragmentDispatch(1, 119);
void _t119__hiddenMutableState(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__param(0));
__dl();
if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
__dl();__out("@SuppressWarnings("Immutable")");
}
__dl();__dl();
};
private class FragmentDispatch extends org.immutables.generator.Templates.Fragment{
private final int index;
FragmentDispatch(int arity, int index){
super(arity);
this.index = index;
}
@Override public void run(org.immutables.generator.Templates.Invokation invocation){
switch (index){
case 0:  _t0__generate(invocation); break;
case 1:  _t1__annotationsWhenTopLevel(invocation); break;
case 2:  _t2__packageWhenTopLevel(invocation); break;
case 3:  _t3__generateEnclosing(invocation); break;
case 4:  _t4__generateImmutable(invocation); break;
case 5:  _t5__extendsImplements(invocation); break;
case 6:  _t6__generateSerialization(invocation); break;
case 7:  _t7__generateWithInterface(invocation); break;
case 8:  _t8__generateJsonWithUnsupported(invocation); break;
case 9:  _t9__generateInterning(invocation); break;
case 10:  _t10__generateConstruction(invocation); break;
case 11:  _t11__generateSingletonInstance(invocation); break;
case 12:  _t12__generateImmutableCopyOf(invocation); break;
case 13:  _t13__generateLazyValues(invocation); break;
case 14:  _t14__castBuildStagedBuilder(invocation); break;
case 15:  _t15__factoryBuildStageBuilderType(invocation); break;
case 16:  _t16__telescopicBuilderImplementInterfaces(invocation); break;
case 17:  _t17__generateTelescopicBuilderInterfaces(invocation); break;
case 18:  _t18__generateBuilder(invocation); break;
case 19:  _t19__builderReturnValue(invocation); break;
case 20:  _t20__checkRequiredOrThrow(invocation); break;
case 21:  _t21__buildFromAttributeNullableSupertype(invocation); break;
case 22:  _t22__buildFromAttribute(invocation); break;
case 23:  _t23__returnFactoryBuild(invocation); break;
case 24:  _t24__valueFromSuper(invocation); break;
case 25:  _t25__maybeToBuilder(invocation); break;
case 26:  _t26__valueToBuilder(invocation); break;
case 27:  _t27__valueFrom(invocation); break;
case 28:  _t28__valueFromValue(invocation); break;
case 29: _t29__valueFromValueNoOptional(invokation); break;
case 30: _t30__deepCopyOf(invokation); break;
case 31: _t31__valueFromBuilder(invokation); break;
case 32: _t32__valueFromBuilderAlt(invokation); break;
case 33: _t33__emptyImmutableInstance(invokation); break;
case 34: _t34__generateConstructorNoAttributes(invokation); break;
case 35: _t35__generateConstructorDefaultAttributes(invokation); break;
case 36: _t36__generateImmutableMembers(invokation); break;
case 37: _t37__generateConstructor(invokation); break;
case 38: _t38__buildFromMandatoryMembers(invokation); break;
case 39: _t39__dynamicFromModifiableCheck(invokation); break;
case 40: _t40__generateSafeDerivedShim(invokation); break;
case 41: _t41__constructorAcceptTypeNoOptional(invokation); break;
case 42: _t42__constructorAcceptType(invokation); break;
case 43: _t43__generateJacksonMapped(invokation); break;
case 44: _t44__generateAccessorMethods(invokation); break;
case 45: _t45__generateObjectUtilityMethods(invokation); break;
case 46: _t46__generateToString(invokation); break;
case 47: _t47__generateDerivedConstruction(invokation); break;
case 48: _t48__generateAfterConstruction(invokation); break;
case 49: _t49__generateReturnCopy(invokation); break;
case 50: _t50__generateReturnCopyRaw(invokation); break;
case 51: _t51__generateReturnCopyContextual(invokation); break;
case 52: _t52__generateReturnBuilderConstructed(invokation); break;
case 53: _t53__generateCopyMethods(invokation); break;
case 54: _t54__defaultAnnotationValues(invokation); break;
case 55: _t55__forwardingEnclosingFactoryMethods(invokation); break;
case 56: _t56__javadocBuilderExample(invokation); break;
case 57: _t57__immutableImplementationType(invokation); break;
case 58: _t58__immutableCollectionBuild(invokation); break;
case 59: _t59__immutableCollectionCopyOf(invokation); break;
case 60: _t60__immutableCollectionCopyOfSafe(invokation); break;
case 61: _t61__equalsAttribute(invokation); break;
case 62: _t62__arrayAsList(invokation); break;
case 63: _t63__arrayAsListSecondary(invokation); break;
case 64: _t64__primitiveHashCode(invokation); break;
case 65: _t65__objectsEqual(invokation); break;
case 66: _t66__objectsHashCode(invokation); break;
case 67: _t67__requireNonNull(invokation); break;
case 68: _t68__objectsUtility(invokation); break;
case 69: _t69__attributeBuilderTransformUtilities(invokation); break;
case 70: _t70__convertToBuilderType(invokation); break;
case 71: _t71__convertToValueType(invokation); break;
case 72: _t72__copyBuilderListBody(invokation); break;
case 73: _t73__collectionUtility(invokation); break;
case 74: _t74__javadocGenerics(invokation); break;
case 75: _t75__defineOrResetBuildingField(invokation); break;
case 76: _t76__defineOrResetBuildingFieldAlt(invokation); break;
case 77: _t77__createBuilderForCollection(invokation); break;
case 78: _t78__createBuiltCollection(invokation); break;
case 79: _t79__serialVersionUID(invokation); break;
case 80: _t80__suppressCovariantCastForOptional(invokation); break;
case 81: _t81__suppressAnyCovariantCastForOptional(invokation); break;
case 82: _t82__eachLine(invokation); break;
case 83: _t83__atGenerated(invokation); break;
case 84: _t84__atElementNullable(invokation); break;
case 85: _t85__topSimplePrefix(invokation); break;
case 86: _t86__maybeCopyOf(invokation); break;
case 87: _t87__maybeNonNullableValue(invokation); break;
case 88: _t88__builderReturnType(invokation); break;
case 89: _t89__builderReturnThis(invokation); break;
case 90: _t90__attributeBuilderBuilderType(invokation); break;
case 91: _t91__createAttributeBuilder(invokation); break;
case 92: _t92__validated(invokation); break;
case 93: _t93__builderInitAccess(invokation); break;
case 94: _t94__invokeSuper(invokation); break;
case 95: _t95__invokeSuperQualified(invokation); break;
case 96: _t96__sourceDocRef(invokation); break;
case 97: _t97__sourceDocLink(invokation); break;
case 98: _t98__optionalGet(invokation); break;
case 99: _t99__optionalEmpty(invokation); break;
case 100: _t100__optionalOf(invokation); break;
case 101: _t101__optionalPresent(invokation); break;
case 102: _t102__unwrappedOptionalType(invokation); break;
case 103: _t103__atCanIgnoreReturnValue(invokation); break;
case 104: _t104__atNullable(invokation); break;
case 105: _t105__atVar(invokation); break;
case 106: _t106__disambiguateFieldRep(invokation); break;
case 107: _t107__disambiguateField(invokation); break;
case 108: _t108__disambiguateAccessor(invokation); break;
case 109: _t109__deprecation(invokation); break;
case 110: _t110__typeDeprecation(invokation); break;
case 111: _t111__vargsSafety(invokation); break;
case 112: _t112__vargsSafetyAbstract(invokation); break;
case 113: _t113__functionClass(invokation); break;
case 114: _t114__overrideJsonDeserialize(invokation); break;
case 115: _t115__overrideJsonTypeInfo(invokation); break;
case 116: _t116__jsonIgnore(invokation); break;
case 117: _t117__castObject(invokation); break;
case 118: _t118__maybeMasked(invokation); break;
case 119: _t119__hiddenMutableState(invokation); break;
default: break;
}
}
Found in path(s):
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SGenerator_Immutables.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SGsonMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SCriteriaMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SSerialMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SFromSupertypesModel.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SCachingElements.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SSuppressedWarnings.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SOkJsonMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SValueImmutableInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SMongoMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SCasesMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SAttributeTypeKind.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/SSwitcherModel.java
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* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/STransformers.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SCriteria.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$generator$/SIntrinsics.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$generator$/SBuiltins.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SRound.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/meta/$Round.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$generator$/SAbstractTemplate.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SValueComposer.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$generator$/SStaticEnvironment.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SImmutables.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SLongBits.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SVisitors.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SAttributesCollector.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SAsts.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SCaseStructure.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SRepositories.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$generator$/SGenerator.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SStyles.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/SSourceOrdering.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
jar/org/immutables/value/internal/$generator$/ClasspathAvailability.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$Reporter.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$generator$/AbstractGenerator.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$generator$/Naming.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$TypeIntrospectionBase.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$Annotations.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$Visibility.java

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$ValueAttributeFunctions.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources.jar/org/immutables/value/internal/$processor$/meta/$ValueType.java

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$NullabilityAnnotationInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$TypeExtractor.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$Generics.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Inflater.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/processor/ProxyProcessor.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$StandardNaming.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$SourceMapper.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Eq.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$FuncMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Mirsors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Structurizer.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Instantiator.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/$Funcs.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator/$ExtensionLoader.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$ImportRewriteDisabler.java
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1.217 go-colorable v0.1.6

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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
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jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io.netty/handler/ssl/SslHandshakeTimeoutException.java
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Found in path(s):
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
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* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
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1.225 basictracer-go v1.0.0

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1.226 goexpect v0.0.0-20191001010744-5b6988669ffa

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1.233 bbolt v1.3.3

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package api

import (
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
  "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\(\)*\)\( All rights reserved\)\)*\n  \n  (//|#) Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.\n  `)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

    return err
  })

if filepath.Ext(path) != "\.go" && filepath.Ext(path) != "\.sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == "\.go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
)
if err != nil {
    t.Fatal(err)
}

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1.237 speed v3.0.0+incompatible

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1.238 lumberjack v2.0.0

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1.243 zlib 1.2.5

1.243.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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1.244 iproute 4.19.0

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1.253 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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Classifier: Programming Language :: Python :: 3.2
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Classifier: Topic :: Communications
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
```
Record ::= SEQUENCE {
  id      INTEGER,
```bash
```
```
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
```
```
Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```
Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
```
```
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
    id is 123
    room is 321
    house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

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

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/README.md
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# License: http://snmplabs.com/pyasn1/license.html

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_, or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.

Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.
Documentation
-------------

.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
:maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
:maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
:maxdepth: 1

/changelog

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-------

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.. toctree::
:maxdepth: 2

/license

Getting help
------------
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`__ or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`__ mailing list list archive.

Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`__ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst`

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1.267 golang-mock v1.4.4

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//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

// This is a mock copyright header.

// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
    gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface
type MockEmpty struct {
    ctrl     *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{
        mock
    }
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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1.271 protobuf 3.6.1

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* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-
  jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/x5/Socks5InitialRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksAuthResponse.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksAuthRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksInitResponse.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksMessage.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksCmdRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksClientDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/Socks4CommandStatus.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksCommonUtils.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksMessage.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources.jar/io/netty/handler/codecs/socks/SocksAuthResponse.java
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 * */
* <code>EARLY_ACCESS = 1;</code>
*/

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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/control.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/documentation.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/resource.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/type/latlng.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/type/dayofweek.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/type/fraction.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/httpbody.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/log.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/context.proto
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jar/google/api/quota.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/logging/type/http_request.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
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jar/google/cloud/audit/audit_log.proto
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jar/google/geo/type/viewport.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/field_behavior.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/label.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/monitored_resource.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/endpoint.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/usage.proto
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jar/google/type/color.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/api/client.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
jar/google/longrunning/operations.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-

1.282 testify v1.7.0

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     internal/pb/memcache/memcache_service.pb.go
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1.284 chardet 3.0.4

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   * https://github.com/fengyuanchen/cropper
   *
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   * Released under the MIT license
   *
   * Date: 2018-03-01T13:33:48.179Z
   */
   */!
* jquery-timepicker v1.11.9 - A jQuery timepicker plugin inspired by Google Calendar. It supports both mouse and keyboard navigation.
* Copyright (c) 2016 Jon Thornton - http://jonthornton.github.com/jquery-timepicker/
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* /opt/cola/permits/1152700775_1619559077.17/0/admin-v0-0-0-20190329022438-b2f472167d02-targz/admin@v0.0.0-20190329022438-b2f472167d02/views/assets/javascripts/vendors.js
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1.300 cloud-google-com-go v0.51.0

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"  
)

var sentinels = []string{  
    "Copyright",  
    "Google",  
    "Licensed under the Apache License, Version 2.0 (the "License");",  
}

func TestLicense(t *testing.T) {  
    t.Parallel()  
    skip := map[string]bool{  
        // Automatically generated.
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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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package main

var licenseTemplates = map[string]string{
This is a small tool that updates the license header for Uber's open source Golang files.

```sh
# update-license
```

```
## Installation
```sh
go get go.uber.org/tools/update-license
```

```
## Usage
```sh
update-license go_files...
```
## Further Work

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package main

import (    "testing"
)

func TestUpdateData(t *testing.T) {    tests := []struct {        input string        output string        year int        license string    }{        `{`package main`,
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2017,
"MIT",
}
}

for _, test := range tests {
    runTestUpdateData(t, test.input, test.output, test.year, test.license)
}

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
    actualOutput := string(
updateData([]byte(input), year, license, "Uber Technologies, Inc.")
)
if output != actualOutput {
t.Errorf("unexpected:\n%s\nactual:\n%s", output, actualOutput)
}
}

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1.316 apiserver-network-proxy-konnectivity-client v0.0.9

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#**************************************************************************
##
## Gradle start up script for UN*X
##

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while [-h "$PRG"] ; do
  ls="ls -ld "$PRG"
  link="expr "$ls" : '.-> \(.*\)"
  if expr "$link" : '/.*' > /dev/null; then
    PRG="$link"
  else
    PRG=`dirname "$PRG"`/"link"
  fi
done
SAVED="pwd"
cd ""/dirname "$PRG"" >/dev/null
APP_HOME="pwd -P"
cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script.
DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
  echo "\n"
}
die () {
  echo "\n"
  echo "$*"
  echo exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case ""uname"" in

CYGWIN* )
cygwin=true
;;
Darwin* )
darwin=true
;;
MINGW* )
msys=true
;;
NONSTOP* )
nonstop=true
;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

# Determine the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
  if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
    # IBM's JDK on AIX uses strange locations for the executables
    JAVACMD="$JAVA_HOME/jre/sh/java"
  else
    JAVACMD="$JAVA_HOME/bin/java"
  fi
  if [ ! -x "$JAVACMD" ] ; then
    die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
    Please set the JAVA_HOME variable in your environment to match the
    location of your Java installation."
  fi
else
  JAVACMD="java"
  which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in
  your PATH.

  Please set the JAVA_HOME variable in your environment to match the
  location of your Java installation."
fi

# Increase the maximum file descriptors if we can.
if [ "$scygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
  MAX_FD_LIMIT=`ulimit -H -n`
  if [ $? -eq 0 ] ; then
    if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max" ] ; then
      MAX_FD="$MAX_FD_LIMIT"
    fi
  ulimit -n $MAX_FD

if [ $? -ne 0 ] ; then
    warn "Could not set maximum file descriptor limit: $MAX_FD"
fi
else
    warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
    GRADLE_OPTS="$GRADLE_OPTS \-Xdock:name=$APP_NAME\" \-Xdock:icon=$APP_HOME/media/gradle.icns\"
fi

# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
    APP_HOME=`cygpath --path --mixed "$APP_HOME`
    CLASSPATH=`cygpath --path --mixed "$CLASSPATH``
    JAVACMD=`cygpath --unix "$JAVACMD``

    # We build the pattern for arguments to be converted via cygpath
    ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
    SEP=""
    for dir in $ROOTDIRSRAW ; do
        ROOTDIRS="$ROOTDIRS$SEP$dir"
        SEP="|"
    done
    OURCYGPATTERN="($ROOTDIRS)"
    # Add a user-defined pattern to the cygpath arguments
    if [ "$GRADLE_CYGPATTERN" != "" ] ; then
        OURCYGPATTERN="$OURCYGPATTERN($GRADLE_CYGPATTERN)"
    fi
    # Now convert the arguments - kludge to limit ourselves to /bin/sh
    i=0
    for arg in "$@" ; do
        CHECK=`echo "$arg"|grep -c "$OURCYGPATTERN```
        CHECK2=`echo "$arg"|grep -c "-```
        if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then
            eval `echo args$i=`cygpath --path --ignore --mixed "$arg```
        else
            eval `echo args$i=""$arg```
        fi
        i=`expr $i + 1`
    done
    case $i in
        0) set -- ;;
1) set -- "$args0" ;;
2) set -- "$args0" "$args1" ;;
3) set -- "$args0" "$args1" "$args2" ;;
4) set -- "$args0" "$args1" "$args2" "$args3" ;;
5) set -- "$args0" "$args1" "$args2" "$args3" "$args4" ;;
6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
esac
fi

# Escape application args
save () {
    for i in *do printf %s\n "$i" | sed "s/'/'\\''/g;1s/^/'/;$s/$/' \\\/" ; done
    echo " "
}
APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
eval set -- $DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS "-Dorg.gradle.appname=$APP_BASE_NAME" -classpath "$CLASSPATH" org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"

exec "$JAVACMD" "$@"

Found in path(s):
* /opt/cola/permits/1196429440_1630508994.47/0/licensing-client-agent-v0-1-10550c937c96a-zip/gradlew

1.319 hamcrest 1.3
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1.320 jackson-dataformat-yaml 2.12.0
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1.322 zap v1.10.0

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1.323 x-crypto v0.0.0-20201221181555-eec23a3978ad

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1.325 testing_frameworks v0.1.1

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1.327 zmq4 v1.2.1
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1.328 mysql-jdbc 5.1.16

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1.335 go-homedir v1.1.0

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

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

@end ifinfo

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

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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to attach them to the start of each source file to most effectively
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the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Ty Coon, President of Vice

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  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/stream/ChunkedNioStream.java
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  jar/io/netty/handler/stream/ChunkedNioFile.java
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  jar/io/netty/handler/ssl/NotSslRecordException.java
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  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
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  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4.1.63-final-sources-1.jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java

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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
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  jar/io/netty/handler/ssl/SslContextOption.java
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  jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslContextOption.java
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  jar/io/netty/handler/ssl/OptinalSslHandler.java
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  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SniClientHelloHandler.java
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  jar/io/netty/handler/ssl/Conscrypt.java
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  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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  jar/io/netty/handler/ssl/SniCompletionEvent.java
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package cmd

func initBsdClause2() {
  Licenses["freebsd"] = License{
    Name: "Simplified BSD License",
    PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd","2 clause bsd", "simplified bsd license"},
}
Header: `All rights reserved.

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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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func initGpl2() {
Licenses["gpl2"] = License{
    Name:            "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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```

package cmd

import (  
    "strings"  
    "time"  
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license

type License struct {  
    Name            string  // The type of license in use  
    PossibleMatches []string // Similar names to guess  
}
Open Source Used In kASA v1.1

Text string // License text data
Header string // License header for source files

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {

year = time.Now().Format("2006")
}

return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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`, 
`, 
}
package cmd

func initLgpl() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: ["apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"],
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.

    Open Source Used In kASA v1.1 3080`
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google package cmd

func initMit() {
  Licenses["mit"] = License{
    Name: "MIT License",
    PossibleMatches: []string{"mit"},
    Header: ` Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
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Version: {revnumber}

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Status: {revremark}
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1.368 jackson-core 2.9.5
# Jackson JSON processor

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

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1.374 hibernate-validator 5.0.1.Final

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1.379 jfreechart 1.0.12

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1.382 v3 v3.0.2

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1.383 prometheus-common v0.20.0

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1.384 google-uuid v1.1.1
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1.385 kube-openapi v0.0.0-20200805222855-6aeccd4b50c6

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1.389 go-openapi-errors v0.19.9

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1.410 boost 1.68.0

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HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jeffrey Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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\\\\

[#mpl]
# MPL Support, <boost/mp11 mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `\`<boost/mp11 mpl.hpp>``, when included, defines the necessary support infrastructure for `\`mp_list` and `\`std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `\`mpl.hpp` is not included by `\`<boost/mp11.hpp>`.
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.4.13 jackson 2.12.0
1.4.13.1 Available under license:

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 * /opt/ws_local/PERMITS_SQL/1077639653_1597066896.9/0/netty-handler-proxy-4-1-51-final-sources-
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1.423 common v0.14.0

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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
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c) Accompany the work with a written offer, valid for at
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1.426 opentracing-go v1.1.0

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1.431 util-linux 2.32.1

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify.go
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/fsnotify_test.go

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

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

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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with the Library, with the complete machine-readable “work that
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b) Use a suitable shared library mechanism for linking with the
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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@end example
```

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DRuntime: Runtime Library for the D Programming Language

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1.464 go-socks5 v0.0.0-20160902184237-e75332964ef5

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1.466 libcurl 7.78.0-r0

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1.475 go-autorest-validation v0.3.1

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* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/FormatString.java
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* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/ForOverride.java
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@page
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@page
@heading Appendix: How to Apply These Terms to Your New Programs
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```smaller
@smaller
@var{one line to give the program's name and a brief idea of what it does.}
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@end small 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:

```smaller
@smaller
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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 small example

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

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

@example
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`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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1.485 alpine-keys 2.2-r0

1.486 golang-genproto v0.0.0-20210312152112-fc591d9ea70f

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1.490 libgpg-error 1.35 1

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1.492 mgo v0.0.0-2018101515135952-eeefdec841b8

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mgo - MongoDB driver for Go

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1.493 checker-compat-qual 2.5.5

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1.497 hikaricp-java7 2.4.13

1.498 jackson 1.9.13

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

-----------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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<one line to give the program’s name and a brief idea of what it does.>
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when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) 19xx name of author
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The hypothetical commands `show w' and `show c' should show the
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  <signature of Ty Coon>, 1 April 1989
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The End

#! perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

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

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

    $year;
}

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

    $year;
}

1.500 form3tech-oss-jwt-go
v3.2.2+incompatible
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1.518 sysv-init 2.88

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* in C (faster - it is executed many times during system startup).
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1.527 x-sys v0.0.0-20210324051608-47abb6519492

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  jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
  /opt/ws_local/PERMITS_SQL/1072411888_1594999339.26/0/netty-codec-http-4-1-51-final-sources-
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  jar/io/netty/handler/codec/http/ServerCookieEncoder.java
  /opt/ws_local/PERMITS_SQL/1072411888_1594999339.26/0/netty-codec-http-4-1-51-final-sources-
  jar/io/netty/handler/codec/http/CookieDecoder.java
  /opt/ws_local/PERMITS_SQL/1072411888_1594999339.26/0/netty-codec-http-4-1-51-final-sources-
  jar/io/netty/handler/codec/http/CookieEncoder.java
  /opt/ws_local/PERMITS_SQL/1072411888_1594999339.26/0/netty-codec-http-4-1-51-final-sources-
  jar/io/netty/handler/codec/http/Cookie.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
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1.555 libidn 2.0.5

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

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https://github.com/golang/protobuf

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/reactor/Action.java
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* Parser.java February 2001
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* Reactor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/Reactor.java
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  jar/org/simpleframework/http/parse/ContentDispositionParser.java
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  jar/org/simpleframework/http/message/Entity.java
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 * Agent.java October 2012
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/trace/Agent.java
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 * BufferSegment.java February 2008
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  jar/org/simpleframework/transport/BufferSegment.java
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/connect/SocketListenerManager.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/Status.java
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  jar/org/simpleframework/transport/Server.java
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RequestLine.java February 2001

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RequestHeader.java February 2001

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jar/org/simpleframework/http/RequestHeader.java
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jar/org/simpleframework/transport/Scheduler.java
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* ConnectionEvent.java October 2012
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  jar/org/simpleframework/transport/connect/ConnectionEvent.java
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* EmptyProducer.java February 2007
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  jar/org/simpleframework/http/core/EmptyProducer.java
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* Expectation.java February 2007
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  jar/org/simpleframework/http/message/Expectation.java
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* BodyConsumer.java February 2007
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  jar/org/simpleframework/http/message/BodyConsumer.java
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* RequestConsumer.java February 2001
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  jar/org/simpleframework/http/message/RequestConsumer.java
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  jar/org/simpleframework/http/core/FlushMonitor.java
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* TransportException.java February 2007
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  jar/org/simpleframework/transport/TransportException.java
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* AddressParser.java February 2001
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* RequestCertificate.java June 2013
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jar/org/simpleframework/util/thread/Scheduler.java
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 * FileAllocator.java February 2008
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  jar/org/simpleframework/util/buffer/FileAllocator.java
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 * ConnectionException.java February 2007
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  jar/org/simpleframework/transport/connect/ConnectionException.java
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jar/org/simpleframework/transport/SecureTransport.java

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jar/org/simpleframework/http/Method.java

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 * ActionMap.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/reactor/ActionMap.java
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/*
 * SocketFlusher.java February 2007
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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/SocketFlusher.java
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* Lease.java May 2004
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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/lease/Lease.java
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* Channel.java February 2007
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  jar/org/simpleframework/transport/Channel.java
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* RequestEntity.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/RequestEntity.java
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* PartSeriesConsumer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/PartSeriesConsumer.java
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 * PacketController.java February 2008
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 * SocketWriter.java February 2008
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* Terminator.java February 2009
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1.jar/org/simpleframework/transport/Terminator.java
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* ArrayAllocator.java February 2001
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/* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/buffer/ArrayAllocator.java
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 * NegotiationCertificate.java June 2013
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jar/org/simpleframework/transport/NegotiationState.java
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 * PacketManager.java October 2007
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  jar/org/simpleframework/transport/PacketManager.java
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 * Collector.java October 2002
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  jar/org/simpleframework/http/core/Collector.java
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 * PoolQueue.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/thread/PoolQueue.java
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  * Notifier.java February 2009
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  jar/org/simpleframework/transport/Notifier.java
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/*
  * TransportEvent.java October 2012
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jar/org/simpleframework/transport/TransportEvent.java
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* BufferPart.java February 2012
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/http/message/BufferPart.java
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* Handshake.java February 2007
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* QueryParser.java December 2002
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* ProducerException.java February 2007
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jar/org/simpleframework/http/core/ProducerException.java
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  jar/org/simpleframework/util/thread/PoolExecutor.java
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* ContentTypeParser.java February 2001
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  jar/org/simpleframework/http/parse/ContentTypeParser.java
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 * TransferException.java February 2007
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 * ArrayBuffer.java February 2001
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  jar/org/simpleframework/http/message/ArrayConsumer.java

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/*
 * QueryCombiner.java May 2003
 */

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 * Acceptor.java October 2002
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  jar/org/simpleframework/transport/connect/SocketAcceptor.java
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 * CloseProducer.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/lease/Controller.java
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* ConsumerFactory.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/ConsumerFactory.java
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* Cursor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/Cursor.java
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* BufferAllocator.java February 2001
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  jar/org/simpleframework/util/buffer/BufferAllocator.java
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* ContentConsumer.java February 2007
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  jar/org/simpleframework/http/message/ContentConsumer.java
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* ExecuteAction.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/reactor/ExecuteAction.java
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* ActionSet.java February 2013
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/reactor/ActionSet.java
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* Processor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1.jar/org/simpleframework/transport/Processor.java
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 * ChunkedConsumer.java February 2007
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 * Part.java February 2007
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 * Principal.java November 2002
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 * Allocator.java February 2001
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 * NegotiationException.java February 2007
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jar/org/simpleframework/transport/NegotiationException.java
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 * Transfer.java February 2007
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jar/org/simpleframework/http/core/Transfer.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/util/lease/LeaseCleaner.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/PartConsumer.java
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* ContainerServer.java February 2001
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  jar/org/simpleframework/http/core/ContainerServer.java
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* Reader.java February 2001
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  jar/org/simpleframework/http/core/Reader.java
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* FixedProducer.java February 2007
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  jar/org/simpleframework/http/core/FixedProducer.java
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* EmptyInputStream.java October 2002
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  jar/org/simpleframework/http/message/EmptyInputStream.java
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  jar/org/simpleframework/transport/Transport.java
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* ChunkedProducer.java February 2007
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jar/org/simpleframework/http/core/ChunkedProducer.java
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* BufferBody.java February 2012
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  jar/org/simpleframework/http/core/Selector.java
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  jar/org/simpleframework/http/message/PartHeaderConsumer.java
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 * PoolFactory.java February 2009
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  jar/org/simpleframework/util/thread/PoolFactory.java
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 * Trace.java October 2012
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  jar/org/simpleframework/transport/trace/Trace.java
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 * PartitionDistributor.java February 2007
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  jar/org/simpleframework/transport/reactor/PartitionDistributor.java
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* PrincipalParser.java February 2001
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  jar/org/simpleframework/transport/reactor/ExecutorReactor.java
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  jar/org/simpleframework/util/lease/Contract.java
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 * BoundaryConsumer.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/BoundaryConsumer.java

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* ProcessorServer.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/ProcessorServer.java

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* SocketTrace.java February 2012
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/connect/SocketTrace.java
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 * TransportCursor.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/TransportCursor.java
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 * PartFactory.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/PartFactory.java
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    * OperationFactory.java February 2007
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    * /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
      jar/org/simpleframework/transport/OperationFactory.java

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    * ParseBuffer.java February 2001
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Found in path(s):
    * /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
      jar/org/simpleframework/util/parse/ParseBuffer.java

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 * MapParser.java February 2005
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  jar/org/simpleframework/util/parse/MapParser.java
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 * Cookie.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/Cookie.java
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 * ResponseMessage.java February 2001
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/ResponseMessage.java

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* Negotiation.java February 2007
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  jar/org/simpleframework/transport/Negotiation.java

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* SocketAgent.java February 2012
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/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/connect/SocketAgent.java
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SecureNegotiator.java February 2007

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jar/org/simpleframework/transport/SecureNegotiator.java
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TransportChannel.java February 2007

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  jar/org/simpleframework/transport/TransportChannel.java
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* ProducerFactory.java February 2007
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  jar/org/simpleframework/http/core/ProducerFactory.java
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  jar/org/simpleframework/transport/Task.java
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* SocketController.java February 2008
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  jar/org/simpleframework/transport/SocketController.java
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* Entry.java May 2004
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  jar/org/simpleframework/util/lease/Entry.java
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* Monitor.java February 2007
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  jar/org/simpleframework/http/core/Monitor.java
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* PartEntryConsumer.java February 2007
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* PacketException.java February 2008
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 * PartEntryFactory.java February 2007
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  jar/org/simpleframework/http/message/PartEntryFactory.java
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 * LeaseManager.java May 2004
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* FilterAllocator.java February 2001
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* CertificateChallenge.java June 2013
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 * Protocol.java May 2012
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 * Timer.java November 2012
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jar/org/simpleframework/http/core/Timer.java
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 * TokenConsumer.java February 2007
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jar/org/simpleframework/http/message/TokenConsumer.java
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 * HeaderConsumer.java February 2007
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jar/org/simpleframework/http/message/HeaderConsumer.java
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 * Packet.java February 2008
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 * FileManager.java February 2008
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/buffer/FileManager.java
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 * Address.java February 2001
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 * PacketWriter.java February 2008
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 * ResponseWrapper.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/ResponseWrapper.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/thread/DirectExecutor.java
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CookieParser.java February 2001

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  jar/org/simpleframework/transport/BufferRecycler.java
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* Latch.java February 2007
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  jar/org/simpleframework/transport/reactor/Latch.java
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* PartSeries.java February 2007
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 * BufferException.java February 2001
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* ContractLease.java May 2004
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* DirectReactor.java February 2007
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* TransportSource.java February 2007
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* FixedConsumer.java February 2007  
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* LeaseException.java May 2004  
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  jar/org/simpleframework/util/lease/LeaseMap.java
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  jar/org/simpleframework/http/core/ContainerSelector.java
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ContainerEvent.java October 2012

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/PartData.java

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/core/Dispatcher.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/Dispatcher.java

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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/util/lease/LeaseProvider.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/Sender.java

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  jar/org/simpleframework/transport/SocketWrapper.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/Path.java

1.590 grpc-go v1.33.2

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* /opt/cola/permits/1168236991_1621962039.06/0/netty-resolver-4-1-63-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274739124
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1.5)";io.netty.util.concurrent;version="[4.1.5)";io.netty.util.internal;version="[4.1.5)";io.netty.util.internal.logging;version="[4.1.5)";sun.nio.ch;resolution:=optional;org.eclipse.jetty.npn;version="[1,2)";resolution:=optional;org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.63"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.63.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-resolver/

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1.592 x-time-rate v0.0.0-20190308202827-9d24e82272b4

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1.600 json-c 0.13.1

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1.601 go-syslog v1.0.0
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package main
import (  "bufio"  "bytes"  "flag"  "fmt"  "io"  "log"  "os"  "path/filepath"  "strings")

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

- h  prints this message and exits
```

func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
}

const copyrightText = `Copyright 2014-2019 Ulrich Kunitz. All rights reserved.
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```

func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintf(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if err = fmt.Fprintf(buf); err != nil {
        panic(err)
    }
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
log.Printf("adding copyright to %s", path)
src, err := os.Open(path)
if err != nil {
return err
}
defer func() {
cerr := src.Close()
if cerr != nil && err == nil {
err = cerr
}
}()
newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
return err
}
defer func() {
cerr := dst.Close()
if cerr != nil && err == nil {
err = cerr
}
}()
out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
line++
txt := scanner.Text()
if line == 1 && strings.Contains(txt, "Copyright") {
del = true
continue
}
if del {
s := strings.TrimSpace(txt)
if len(s) == 0 {
del = false
}
continue
}
fmt.Fprintln(out, txt)
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), "go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
log.Printf("%s is not a directory", path)
continue
}
if err = filepath.Walk(path, walkCopyrights); err != nil {
log.FatalF("%s error %s", path, err)
}

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla’s root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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1.632 tools v0.0.0-20200616133436-c1934b75d054

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    "Apache-2.0": `// Copyright {{.Year}} {{.Owner}}

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open Source Used in kASA v1.1 4642`
This is a small tool that updates the license header for Uber's open source Golang files.

### Installation

```bash
... 
go get go.uber.org/tools/update-license
... 
```

### Usage

```bash
... 
update-license go_files...
... 
```

### Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably
makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbese, dry run support

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import (
    "testing"
)

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
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}

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runTestUpdateData(t, test.input, test.output, test.year, test.license)
}

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
actualOutput := string(
updateData([]byte(input), year, license, "Uber Technologies, Inc."))
if output != actualOutput {
    t.Errorf("unexpected:\n%s\nactual:\n%s", output, actualOutput)
}
}
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1.633 zlib 1.2.11.dfsg-1

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1.634 x-net v0.0.0-20200707034311-ab3426394381

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1.635 dosfs-tools 4.1
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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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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1.643 json-java 20131018

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Found in path(s):
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitOutputStream.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/TrieKeep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/JSONzip.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Kim.java

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONArray.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONObject.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Cookie.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/HTTP.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XML.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/HTTPTokener.java
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Found in path(s):
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONWriter.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONStringer.java

1.644 netty-codec 4.1.61.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.61.Final
Built-By: norman
Bnd-LastModified: 1617096680823
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Require-Capability: osgi.ee;filter="(&amp; osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
1.645 gomega v1.10.1

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1.646 libc-utils 0.7.2-r3
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1.648 handy v0.0.0-20190108123426-d5acb3125c2a

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# Handy Handlers

Collection of useful HTTP handlers that form a handler stack of filters. Many are opinionated for a specific purpose.

[!GO](https://godoc.org/github.com/streadway/handy?status.svg)
# API

The signature for a handler wrapper ends with an http.Handler interface and returns a http.Handler interface. For example:

```go

func CORS(methods, origins []string, http.Handler) http.Handler
```

# Contributing

Fork the repo and add your fix or handler with tests. Make a pull request.

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* /opt/cola/permits/1152735013_1619793581.85/0/handy-v0-0-0-20190108123426-d5acb3125c2a-tar-gz/handy@v0.0.0-20190108123426-d5acb3125c2a/README.md
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1.650 gophercloud v0.16.0
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package RESOURCE

import (  
"github.com/gophercloud/gophercloud"  
"github.com/gophercloud/gophercloud/pagination"
 )

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
commonResult
}
// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
Links struct {
Next string `json:"next"
Previous string `json:"previous"
} `json:"links"
}
err := r.ExtractInto(&s)
if err != nil {
return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.
Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into
individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:
### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
```
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to
each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it’s possible that the acceptance tests you’ve included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you’ve run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don’t explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We’re more than happy to provide advice.

During the code review process, a core member will review the code you’ve submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
`
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{}
`.

// UpdateResult provides an update result.
const UpdateResult = `{}
`.

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, CreateRequest)
}()

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
}()

w.WriteHeader(http.StatusNoContent)
})

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
}()

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})

package testing

import (
    "testing"
)
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}
func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}
// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}
// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
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END OF TERMS AND CONDITIONS
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else...
to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of
documentation [here](/acceptance) to help you build your own small OpenStack
environment for testing.

---

Once you've confirmed you are able to test your code, proceed to
[Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull
Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

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

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

----------

When reporting a bug, please try to provide as much information as you
can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

#### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all,
they're just part of various Networking extensions located in ‘networking/v2/extensions’.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

### Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for availability_zone_hints to the networking/v2/networks package.

Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```

...to look like

```go
type Network struct {
    ID                    string   `json:"id"`
    Name                  string   `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string   `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string   `json:"tenant_id"`
    Shared                bool     `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that availability_zone_hints is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.
In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

----------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.
* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides
========================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.651 jsr305 3.0.2

1.652 groupcache v0.0.0-20191227052852-215e87163ea7

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1.653 ebtables 1.8.6

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import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
}
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package spec

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// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.686 pcre2 10.35-r0
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included in the distribution is a just-in-time compiler that can be used to 
optimize pattern matching. This is an optional feature that can be omitted when 
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THE BASIC LIBRARY FUNCTIONS

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

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1.687 zlib 1.2.3
1.687.1 Available under license :
/* 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).

/*
/* match.s -- Pentium-optimized version of longest_match()
* Written for zlib 1.1.2
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>
*
* This is free software; you can redistribute it and/or modify it
* under the terms of the GNU General Public License.
*/

1.688 gengo v0.0.0-20200114144118-36b2048a9120

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1.689 google-api-go-client 0.19.0
1.689.1 Available under license :

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package api

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
}

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved.)* (//|#) Use of this source code is governed by a BSD-style (//|#) license that can be found in the LICENSE file.
`
)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
"tools.go": true, // This file requires another comment above the license.
"internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
"internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if strings.HasPrefix(path, prefix) {
            // Proceed.
        } else {
            t.Errorf("Expected file %s to start with %s", path, prefix)
        }

        return nil
    })
    if err != nil {
        t.Errorf("Error occurred: %v", err)
    }
    t.Logf("License test passed for %d files", len(err))
}
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
    return nil
}
if err != nil {
    t.Fatal(err)
}

1.690 xml-apis 1.3.04
1.690.1 Available under license :
xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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- http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
- http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
- http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
- http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
- http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
- http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
- http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
- http://www.w3.org/Style/CSS/SAC/
- http://www.w3.org/2002/06/sacjava-1.3.zip

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- http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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bzip2/libbz2 version 1.0.2 of 30 December 2001

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

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Version 3, 29 June 2007

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    cmd/krb5/propkpropd_RPC.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mech/spnego_mech.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
    lib/krb5/kdb/kdb_hdr.h
    lib/krb5/kdb/kdb_log.c
    lib/krb5/kdb/kdb_log.h
    lib/libgss/g_accept_sec_context.c
    lib/libgss/g_acquire_cred.c
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    lib/libgss/g_context_time.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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

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1.735 go-openapi-spec v0.20.3

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package spec

import (  
    "encoding/json"  
    "testing"  
    "github.com/stretchr/testify/assert"
)

var license = License{  
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `
"name": "the name",
"url": "the url",
"x-license": "custom term"
}

func TestIntegrationLicense(t *testing.T) {

  // const licenseYAML = "name: the name\nurl: the url"

  b, err := json.MarshalIndent(license, "", "\t")
  if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
  }

  actual := License{}
  err = json.Unmarshal([]byte(licenseJSON), &actual)
  if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
  }

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package spec

import (  
  "encoding/json"

  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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* Cordys R&D BV

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1.740 iptables 1.8.6-r0

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom” and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
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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, ltcfg, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from...
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
1.742 logger v0.2.1

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Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1591785325580
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
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1.746 jackson-databind 2.9.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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### 1.747 jboss-logging 3.1.1.GA

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That's all there is to it!
// PermissionMode permission mode
type PermissionMode string

const (    // Create predefined permission mode, create permission    Create PermissionMode = "create"    // Read predefined permission mode, read permission    Read PermissionMode = "read"    // Update predefined permission mode, update permission    Update PermissionMode = "update"    // Delete predefined permission mode, deleted permission    Delete PermissionMode = "delete"    // CRUD predefined permission mode, create+read+update+delete permission    CRUD PermissionMode = "crud"
)

// ErrPermissionDenied no permission error
var ErrPermissionDenied = errors.New("permission denied")

// Permission a struct contains permission definitions

type Permission struct {    Role *Role    AllowedRoles map[PermissionMode][]string    DeniedRoles map[PermissionMode][]string
}

func includeRoles(roles []string, values []string) bool {    for _, role := range roles {        if role == Anyone {            return true        }
    }
    for _, value := range values {        if value == role {            return true        }
    }
    return false
}
// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
    var result = Permission{
        Role:         Global,
        AllowedRoles: map[PermissionMode][]string{},
        DeniedRoles:  map[PermissionMode][]string{},
    }

    var appendRoles = func(p *Permission) {
        if p != nil {
            result.Role = p.Role
            for mode, roles := range p.DeniedRoles {
                result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)
            }
            for mode, roles := range p.AllowedRoles {
                result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)
            }
        }
    }
    appendRoles(newPermission)
    appendRoles(permission)
    return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Allow(Create, roles...).Allow(Update, roles...).Allow(Read, roles...).Allow(Delete, roles...)
    }
    if permission.AllowedRoles[mode] == nil {
        permission.AllowedRoles[mode] = []string{}
    }
    permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
    return permission
}

// Deny deny permission mode for roles
func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
    }
    if permission.DeniedRoles[mode] == nil {

permission.DeniedRoles[mode] = [string{ }]
}
permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
return permission

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{}) bool {
    var roleNames []string
    for _, role := range roles {
        if r, ok := role.(string); ok {
            roleNames = append(roleNames, r)
        } else if roler, ok := role.(Roler); ok {
            roleNames = append(roleNames, roler.GetRoles()...)
        } else {
            fmt.Printf("invalid role %#v\n", role)
            return false
        }
    }
    if len(permission.DeniedRoles) != 0 {
        if DeniedRoles := permission.DeniedRoles[mode]; DeniedRoles != nil {
            if includeRoles(DeniedRoles, roleNames) {
                return false
            }
        }
    }
    // return true if haven't define allowed roles
    if len(permission.AllowedRoles) == 0 {
        return true
    }
    if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {
        if includeRoles(AllowedRoles, roleNames) {
            return true
        }
    }
    return false
}

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1.750 v2 v2.0.0

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1.753 utils v0.0.0-20200324210504-a9aa75ae1b89

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1.761 xerrors v0.0.0-20200804184101-5ec99f83aff1

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1.765 restlet 2.4.3

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*/
/**
 * Constructor.
 *
 * @param server
 * @param exchange
 * @param confidential
 *
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpExchangeCall.java

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*/

/**
* Authorizer allowing only confidential calls. Confidential calls typically
* come through HTTPS server connectors.
* @author Jerome Louvel
*/

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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ExpectationWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DateWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Put.java
* /opt/cola/permits/1122075426_1629910343.42/0.org-restlet-2-4-3-sources-jar/org/restlet/resource/Header.java
* /opt/cola/permits/1122075426_1629910343.42/0.org-restlet-2-4-3-sources-jar/org/restlet/service/DecoderService.java
* /opt/cola/permits/1122075426_1629910343.42/0.org-restlet-2-4-3-sources-jar/org/restlet/service/ConverterService.java
* /opt/cola/permits/1122075426_1629910343.42/0.org-restlet-2-4-3-sources-jar/org/restlet/service/EngineClassLoader.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/ChallengeAuthenticator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Route.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/HttpClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ServiceList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/EncodingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/HeaderConstants.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/ChallengeAuthenticator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Route.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/HttpClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ServiceList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/EncodingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Parameter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Application.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/ConnectorService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/CorsResponseHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/outputrepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/FileEntity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/converter/ConverterHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/InputStreamChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/SmtpPlainHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/LogService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/ThrowableAnnotationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ClientRouter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/Method.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Response.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/UnclosableOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/AuthenticatorHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/CallResolver.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/CacheDirective.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/EmptyRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieSettingWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/EntityClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/util/ClientList.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Status.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/AnnotationInfo.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/UnclosableInputStream.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/AuthenticationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Conditions.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/StatusService.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Helper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Realm.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/FileRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StatusFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/WebDavProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/ApplicationHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/TemplateRoute.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StrictConneg.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/SimplerFormatter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Connector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/HostRoute.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LoggerFacade.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DimensionWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieSettingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Authorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/StringRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/NbChannelOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/HttpBasicHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/WrapperSslServerSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/WrapperSslSocketFactory.java
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Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
  jar/org/restlet/engine/resource/MethodAnnotationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
  jar/org/restlet/engine/util/StringUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
  jar/org/restlet/representation/DigesterRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
  jar/org/restlet/representation/AppendableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
  jar/org/restlet/engine/local/ZipClientHelper.java

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*/
/** The confidentiality. */
/**
 * Constructor.
 *
 * @param schemeName
 * @param name
 * @param description
 * @param defaultPort
 * @param confidential
 *
 /**
 * Indicates if the protocol guarantees the confidentiality of the messages
 * exchanged, for example via a SSL-secured connection.
 *
 * @return True if the protocol is confidential.
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Protocol.java

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*/
/**
 * Indicates if the call came over a confidential channel such as an
 * SSL-secured connection.
 *
 * @return True if the call came over a confidential channel.
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperRequest.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperResponse.java
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 */
/**
 * Indicates if the call is confidential.
 */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 *
 * @return True if the confidentiality of the call is ensured (ex: via SSL).
 */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 */
* @param confidential
  * True if the confidentiality of the call is ensured (ex: via
  * SSL).
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/Call.java
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 */
/**
 * Sets the reference comparator based on the more friendly "Alphanumeric
 * Algorithm" created by David Koelle. The internal implementation used is
 * based on an optimized public domain implementation provided by Rob
 * Heittman from the Solertium Corporation.
 *
 * @see <a href="http://www.davekoelle.com/alphanumeric.html">The original
 * Alphanumeric Algorithm from David Koelle</a>
 * @see #setComparator(Comparator)
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Directory.java
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 */

/**
 * Application service capable of running and scheduling tasks asynchronously.
 * The service instance returned will not invoke the runnable task in the
 * current thread.<br>
 * <br>
 * In addition to allowing pooling, this method will ensure that the threads
 * executing the tasks will have the thread local variables copied from the
 * calling thread. This will ensure that call to static methods like
 * {@link Application#getCurrent()} still work.<br>
 * <br>
 * Also, note that this executor service will be shared among all Restlets and
 * Resources that are part of your context. In general this context corresponds
 * to a parent Application's context. If you want to have your own service
 * instance, you can use the {@link TaskService#wrap(ScheduledExecutorService)}
 * method to ensure that thread local variables are correctly set.
 *
 * @author Jerome Louvel
 * @author Doug Lea (docs of ExecutorService in public domain)
 * @author Tim Peierls
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/TaskService.java

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 */
/**

* Optimized public-domain implementation of a Java alphanumeric sort.
* <p>
*
* This implementation uses a single comparison pass over the characters in a
* CharSequence, and returns as soon as a differing character is found, unless
* the difference occurs in a series of numeric characters, in which case that
* series is followed to its end. Numeric series of equal length are compared
* numerically, that is, according to the most significant (leftmost) differing
* digit. Series of unequal length are compared by their length.
* <p>
*
* This implementation appears to be 2-5 times faster than alphanumeric
* comparators based based on substring analysis, with a lighter memory
* footprint.
* <p>
*
* This alphanumeric comparator has approximately 20%-50% the performance of the
* lexical String.compareTo() operation. Character sequences without numeric
* data are compared more quickly.
* <p>
*
* Dedicated to the public domain by the original author:
* http://creativecommons.org/licenses/publicdomain/
*
* @author Rob Heittman, <a href="http://www.solertium.com">Solertium Corporation</a>
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/AlphaNumericComparator.java
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 */
/**
 * Implemented based on the [@link Protocol#isConfidential()] method for the
 * request's protocol returned by [@link #getProtocol()];
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Request.java
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Indicates if this service is acting in HTTP or HTTPS mode.

@confidential
True if this service is acting in HTTP or HTTPS mode.

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Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources.jar/org/restlet/engine/adapter/ServerCall.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources.jar/org/restlet/engine/resource/AnnotationUtils.java
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*/
/**
* Indicates if the message was or will be exchanged confidentially, for
* example via a SSL-secured connection.
*
* @return True if the message is confidential.
* @see Request#isConfidential()
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources.jar/org/restlet/resource/Resource.java
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*/
/**
 * Indicates if the message was or will be exchanged confidentially, for
 * example via a SSL-secured connection.
 *
 * @return True if the message is confidential.
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Message.java
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```java
/**
 * Resolves a name into a value. By default, the {@link #createResolver(Map)} static method can adapt a Java map into a resolver. Another useful method is the random and resolver's transferable or non-transferable, directly at https://restlet.talend.com/ Restlet is a registered trademark of Talend S.A.
*/

```
<table>
<thead>
<tr>
<th>Request Entity</th>
<th>Response Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong></td>
<td><strong>Expiration</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>Language</strong></td>
</tr>
<tr>
<td><strong>Character Set</strong></td>
<td><strong>Character Set</strong></td>
</tr>
<tr>
<td><strong>Encoding</strong></td>
<td><strong>Encoding</strong></td>
</tr>
<tr>
<td><strong>Modification Date</strong></td>
<td><strong>Modification Date</strong></td>
</tr>
<tr>
<td>Request/Response</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
</tr>
<tr>
<td>response.entity.modificationDate</td>
<td>EMD</td>
</tr>
<tr>
<td>request.entity.mediaType</td>
<td>emt</td>
</tr>
<tr>
<td>response.entity.mediaType</td>
<td>EMT</td>
</tr>
<tr>
<td>request.entity.size</td>
<td>es</td>
</tr>
<tr>
<td>response.entity.size</td>
<td>ES</td>
</tr>
<tr>
<td>request.entity.tag</td>
<td>et</td>
</tr>
<tr>
<td>response.entity.tag</td>
<td>ET</td>
</tr>
<tr>
<td>request.referrerRef</td>
<td>f*</td>
</tr>
<tr>
<td>request.hostRef</td>
<td>h*</td>
</tr>
<tr>
<td>Variable</td>
<td>Value</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>request.method</td>
<td>m</td>
</tr>
<tr>
<td>request.rootRef</td>
<td>o*</td>
</tr>
<tr>
<td>request.protocol</td>
<td>p</td>
</tr>
<tr>
<td>request.resourceRef</td>
<td>r*</td>
</tr>
<tr>
<td>response.redirectRef</td>
<td>R*</td>
</tr>
<tr>
<td>response.status</td>
<td>S</td>
</tr>
<tr>
<td>response.serverInfo.address</td>
<td>SIA</td>
</tr>
<tr>
<td>response.serverInfo.agent</td>
<td>SIG</td>
</tr>
<tr>
<td>response.serverInfo.port</td>
<td>SIP</td>
</tr>
</tbody>
</table>
Below is the list of name sub-parts, for Reference variables, that can replace the asterix in the variable names above:

<table>
<thead>
<tr>
<th>Reference property</th>
<th>Sub-part name</th>
<th>Content type</th>
</tr>
</thead>
<tbody>
<tr>
<td>authority</td>
<td>a</td>
<td>String</td>
</tr>
<tr>
<td>baseRef</td>
<td>b*</td>
<td>Reference</td>
</tr>
<tr>
<td>targetRef</td>
<td>t*</td>
<td>Reference</td>
</tr>
<tr>
<td>relativePart</td>
<td>e</td>
<td>String</td>
</tr>
<tr>
<td>fragment</td>
<td>f</td>
<td>String</td>
</tr>
<tr>
<td>hostIdentifier</td>
<td>h</td>
<td>String</td>
</tr>
<tr>
<td>identifier</td>
<td>i</td>
<td>String</td>
</tr>
<tr>
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# Contributions to the urllib3 project

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  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
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* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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* Stephen Holsapple <sholsapp@gmail.com>
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* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

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  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
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* Aaron Meurer <asmeurer@gmail.com>
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* Evgeny Kapun <abacababadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

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  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

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  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>  
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaelarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <syzygy1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `"long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `"contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `"HTTPResponse.geturl` method to provide `"urllib2.urlopen().geturl()`` behavior

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.781 kubernetes-apiserver v0.19.2

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1.782 jwt-go v3.2.0+incompatible

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.805 go-junit-report v0.0.0-20190106144839-af01ea7f8024

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```html
<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
  @name={{name}}
  as |group|>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid)
    changeset=changeset
  )}}

</fieldset>
</div>
```
<fieldset>
<header>
<h2>Path</h2>
</header>
<div>
<group.Element
    @name="PathType"
    @type="select"
    as |el|>
    <el.Label>
    Path type
    </el.Label>
    <PowerSelect
        @options={{pathTypes}}
        @selected={{pathType}}
        @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
    </group.Element>
</div>
{{#if shouldShowPathField}}
    <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
        as |el|>
        <el.Label>
            {{get pathLabels pathType}}
        </el.Label>
        <el.Text
            @value={{changeset-get changeset 'HTTP.Path'}}
            oninput={{action 'change' 'HTTP.Path' changeset}} />
        <State @state={{el.state}} @matches="error">
            <el.Error>
                {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
                    Path Regex should not be blank
                {{else}}
                Path should begin with a '/'
                {{/if}}
            </el.Error>
        </State>
    </group.Element>
{{/if}}
<fieldset>
<h2>Methods</h2>
</fieldset>

{{#if shouldShowMethods}}
<fieldset>
<h2>Methods</h2>
</fieldset>

<div class="checkbox-group" role="group">
{{#each methods as |method|}}
<label class="type-checkbox">
<input type="checkbox" name="method" value={{method}} checked={{if (contains method changeset.HTTP.Methods) 'checked' }} onchange={{action 'change' 'method' changeset}} />
<span>{{method}}</span>
</label>
{{/each}}
</div>
{{/if}}

[{{#if shouldShowMethods}}]

<fieldset>
<h2>Headers</h2>
</fieldset>

<Consul::Intention::Permission::Header::List
   @items={{changeset-get changeset 'HTTP.Header'}}
   @ondelete={{action 'delete' 'HTTP.Header' changeset}}
as [headerList]>

</Consul::Intention::Permission::Header::List>
<Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}
as [headerForm]>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<button
data-test-add-header
type="button"
class="type-submit"
disabled={ [if (not this.headerForm.isDirty) 'disabled'] }
onclick={ [action this.headerForm.submit] }
>
  Add{ [#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0))] another{ [/if] } header
</button>
<button
type="button"
class="type-cancel"
onclick={ [action this.headerForm.reset] }
>
  Cancel
</button>

</fieldset>
</FormGroup>
</div>

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Protocol Buffers for Go with Gadgets

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

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  - padding-top: 1.4em;
  - margin-top: 0.2em;
  - margin-bottom: 0.6em;
- **consul-intention-permission-header-form**
  - margin-top: 10px;
- **fieldset:nth-child(2) > div**
  - **consul-intention-permission-header-form fieldset > div**
    - display: grid;
    - grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
    - grid-gap: 12px;
  - **fieldset:nth-child(2) > div label:last-child**
    - grid-column: span 2;
- **ember-basic-dropdown-trigger**
  - padding: 5px;
- **checkbox-group**
  - flex-direction: column;

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The license command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```
Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license
Here are some simple examples, and more detailed examples are
available in the subcommands or the documentation.

Install a new license from a file:

    $ consul license put @consul.license

Install a new license from stdin:
Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get        Get the active license
  inspect    Inspect a signed license
  put        Puts a new license in the datacenter
  reset      Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [options] [license file]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hcl
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```
This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```plaintext
...
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74ef-4e8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
  Global Visibility, Routing and Scale
  Governance and Policy
Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
  Namespaces
  SSO
  Audit Logging
  Admin Partitions

License is valid

...
```

**> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'
The output looks like this:
```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ff6-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  - Automated Backups
  - Automated Upgrades
  - Enhanced Read Scalability
  - Network Segments
  - Redundancy Zone
  - Advanced Network Federation
```

```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ff6-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  - Automated Backups
  - Automated Upgrades
  - Enhanced Read Scalability
  - Network Segments
  - Redundancy Zone
  - Advanced Network Federation
```
## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

...
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<dl class="permission-methods">
  <dt>
  <Tooltip>
  Methods
  </Tooltip>
  </dt>
  <dd>
  {{#each item.HTTP.Methods as |item|}}
  {{item}}
  {{/each}}
  </dd>
</dl>

{{/if}}

{{#if item.HTTP.Path}}
<dl class="permission-path">
  <dt>
  <Tooltip>
  {{item.HTTP.PathType}}
  </Tooltip>
  </dt>
  <dd>
  {{item.HTTP.Path}}
  </dd>
</dl>
{{/if}}

{{#each item.HTTP.Header as |item|}}
<dl class="permission-header">
  <dt>
  <Tooltip>
  Header
  </Tooltip>
  </dt>
  <dd>
  {{item.Name}} {{route-match item}}
  </dd>
</dl>
{{/each}}</div>
</BlockSlot>

{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
  <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={true}>
    <BlockSlot @name="label">
      Edit
    </BlockSlot>
  </Action>
  <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
    Delete
  </Action>
</Actions>
</BlockSlot>
{{/if}}
<BlockSlot @name="label">
  Delete
</BlockSlot>
<BlockSlot @name="confirmation" as [Confirmation]>
  <Confirmation class="warning">
    <BlockSlot @name="header">
      Confirm delete
    </BlockSlot>
    <BlockSlot @name="body">
      <p>
        Are you sure you want to delete this permission?
      </p>
    </BlockSlot>
    <BlockSlot @name="confirm" as [Confirm]>
      <Confirm>Delete</Confirm>
    </BlockSlot>
  </Confirmation>
</BlockSlot>
</Action>
</Actions>
</BlockSlot>
{"/f1}
</ListCollection>
{"/f1}
%notice {
  position: relative;
  padding: 0.8rem;
}
%notice header {
  margin-bottom: 0.1rem;
}
%notice header > * {
  margin-bottom: 0;
}
%notice p {
  margin-bottom: 0.3rem;
  line-height: 1.4;
}
/* this is probably skin */
%notice {
  padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
  position: absolute;
  top: 0.8rem;
  left: 0.6rem;
  font-size: 1rem;
}
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>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6de46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6de46002
>>> coreos_go-semver_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e
>>> docker_distribution-28602af35aced2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbfdddb055a7b9e3ce271cfd83eca
>>> docker_go-libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd
>>> docker_go-libtrust-9ebd2a1374f46905c68a4eb3694a130610adc62a
>>> go-openapi-analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-779f45308c19820fa69e9a4cd965f496e0da10f
>>> go-openapi_jsonreference-36d33bffe519efa5632669801b180bf1a245da3b
>>> go-openapi_jsonreference-36d33bffe519efa5632669801b180bf1a245da3b
>>> go-openapi_loads-6bb6486231e079ea125c0f39994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f0854
>>> go-openapi_spec-e072eb2390da03723a6eb617d30f48369160447
>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc
>>> go-openapi_swag-96d7b9ebd181a1735a1c9ac87914f2b32f56c9
SECTION 2: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51ad624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-df6a1ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-df6a1ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-df6a1ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bcb
>>> armon_go-radix-4239b77079c7b5d14237b4736304ce8d60f0f2
>>> asaskevich_govalidator-9699ab6b388ee2f02cd3fe8b99ecf67665935e96
>>> azure_go-ansi-term-70b2c90b260171e829ff1ebd7c17f600c11585d8be
>>> boltdb_bolt-b514920ff2fe0a68f857e5a12774f385a9aef9
>>> cenkalti_backoff-b02f2bbce11d7eaa6b97f282ef1771b0fe2f66e5f3
>>> client9_misspell-9a1fc2456ac9e8c9b4ebe9d005b6e7adac0d357f
>>> codegangsta/inject-33e0a1cbe7c019cc3fbeb049a8262a6403d03504
>>> codegangsta_clis-master
>>> cpuguy83_go-md2man_md2man-a65d4d2de4df7c74868dfa9b202a3c8be31aaa
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff084125844bca
>>> deckarep_golang-set-1f0f4ff83f3be9f3285222993ce71c358906f7554
>>> dustin_go-humanize-259d2a102bb871d17f50e3cd9881a642961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c13810dd
>>> gizak_termui-798f9beb4e073ef1f88e6069ca4a26aa6676b
>>> go-check_check-20d25e2804050c1cd24a7ee1a76a447ddc0e7e4ec
>>> go-martini/martini-22f4a691aabd2665c3f1343b146d20028f50f71
>>> go-nsf-client-42fca177a36031d648551c751de1daaf555dd4f0
>>> godbus_dbus-230e4b23db2f8d18c53ea0oa073f76659d4849ce51
>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2edf937567208d8b2b7
>>> gogo_protobuf_protoc-gen-go-gogo_descriptor-6a92c871a8f5333cf106b2edf937567208d8b2b7
>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2edf937567208d8b2b7
>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6
>>> golang_net-7d2d04f9cdec7d3821820cc4af150aee553639a
>>> govmomi-v0.17.1
>>> maruel_panicparse_stack-25bca0d793cf41094835050ad66e066a3a90a80
>>> oxtocart/bpool-4e1c5567d7ec2dd59f4a4c7e83d34c3ef5282b025d6
>>> syncutil_singleflight-7ce08c145bde66a127c447b80ee7914f3e4f9
>>> vdemeester_shakers-24d7f1d6a71aa5d9cbe7390e4ab66b7eef9e1b3
>>> vishvananda_netlink-482f7a52b78533251878cb6c5904b66d63f4357
>>> vishvananda_netsns-604eaf189ee867d8c147fa6f28dfe2394e878d25
>>> yaml_v2-2c478c975fe7c825c6d1466c42be594d1d6f3aba6
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3dd6f8e2f0acc33829c8eb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26c9a9e3d239c2fcb3432a2

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>>> dbus-1.11.12-1.ph2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
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>>> sudo-1.8.20p2-5.ph2
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>>> readline-7.0-2.ph2

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>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998

Go support for leveled logs, analogous to https://code.google.com/p/google-glog

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>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8dd6f0f2
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>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96

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>>> azure_go-ansiterm-70b2e90b260171e829f1ebd7c17f600c11858dbe
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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> client9_misspell-9a1fc2456ac9e8c9b4ebe9d005b6e7adac0d357f

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868d6a9b202a3c8be315aaa

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>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522993ce71c35890f67554

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>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6

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>>> mitchellh_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> naoina_denco-9af2ba0e24214bac003821f4a501b131b2e04c75

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>>> racksec_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc

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>>> ryanuber_go-glob-256dc44b735e061061cf46e809487313d5b0065

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>>> sirupsen_logrus-d26492970760ca5d33129d2d799ec34be5c4782eb

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94

Objx - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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It was heavily inspired by the go blowfish package.

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>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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@version 3.0 (December 2000)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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By Steve Reid <sreid@sea-to-sky.net>
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>>> openssh-7.5p1-11.ph2

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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procps-ng-3.3.15.tar.xz/procps-ng-3.3.15.tar/procps-ng-3.3.15/mkinstalldirs

mkinstalldirs --- make directory hierarchy
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procps-ng-3.3.15.tar.xz/procps-ng-3.3.15.tar/procps-ng-3.3.15/pmap.c

pmap.c - print process memory mapping
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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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2.32\libmount\python\pylibmount.c

Python bindings for the libmount library.

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Bison implementation for Yacc-like parsers in C


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error.c -- Functions for handling errors.

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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/parser-built

A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without
allocating any. It is a good idea to use alloca(0) in
your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

/

/This module is part of the cryptlib continuously seeded pseudorandom
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[Here is the notice from lib_rand.c:]

---

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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance
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estream.c - Extended Stream I/O Library
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Test Socket Type

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or 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 to 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.
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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

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

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

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

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

That's all there is to it!

--------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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of this license document, but changing it is not allowed.

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

Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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
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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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LPPL Version 1.3c 2008-05-04

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<div ...
attributes
class="consul-intention-permission-header-form"
>

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@name={{name}}
as [group]>

{{yield (hash

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reset=(action 'reset' changeset)

isDirty=(and changeset.isValid changeset.isDirty)

changeset=changeset

)}}

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        @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
        {{get headerLabels Type}}
    </PowerSelect>
</group.Element>

<group.Element
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    @error={{changeset-get changeset 'error.Name'}}
as [el]>
    <el.Label>Header name</el.Label>
    <el.Text
        @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}} />
    <State @state={{el.state}} @matches="error">
        {{changeset-get changeset 'error.Name.validation'}}
    </el.Error>
</State>
</group.Element>

{{#if shouldShowValueField}}
    <group.Element
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        @error={{changeset-get changeset 'error.Value'}}
    as [el]>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
            @value={{changeset-get changeset 'Value'}}
            oninput={{action 'change' 'Value' changeset}} />
        <State @state={{el.state}} @matches="error">
            {{changeset-get changeset 'error.Value.validation'}}
        </el.Error>
    </State>
</group.Element>
{{/if}}
package api

import (  
  "fmt"
  "io/ioutil"
  "time"
)

type License struct {  
  // The unique identifier of the license  
  LicenseID string `json:"license_id"`

  // The customer ID associated with the license  
  CustomerID string `json:"customer_id"`

  // If set, an identifier that should be used to lock the license to a  
  // particular site, cluster, etc.  
  InstallationID string `json:"installation_id"`

  // The time at which the license was issued  
  IssueTime time.Time `json:"issue_time"`

  // The time at which the license starts being valid  
  StartTime time.Time `json:"start_time"`

  // The time after which the license expires  
  ExpirationTime time.Time `json:"expiration_time"`

  // The time at which the license ceases to function and can  
  // no longer be used in any capacity  
  TerminationTime time.Time `json:"termination_time"`

  // The product the license is valid for  
  Product string `json:"product"`

  // License Specific Flags  
  Flags map[string]interface{} `json:"flags"`

  // Modules is a list of the licensed enterprise modules  
  Modules []string `json:"modules"`

  // List of features enabled by the license  
  Features []string `json:"features"`
}
type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", `/v1/operator/license`)
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicenseReset(_ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicensePut(_ string, _ *WriteOptions) (*LicenseReply, error) {
return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}
---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.
---

# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

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In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

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### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `[license_path]` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:
1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent
the need to configure the license on many client agents and snapshot agents those agents have the capability
to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the
license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the
request but the token doesn't need any particular permissions. As the license is required before the client
actually joins the cluster, where to make those RPC requests to is inferred from the`start_join`[/docs/agent/options#start_join]
or`retry_join`[/docs/agent/options#retry_join) configurations. If those are both unset or no
`agent` token[/docs/agent/options#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a
license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed
below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However,
instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or
client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also
like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

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#
# Names should be added to this file as:
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Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
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# Notice

Presentational component for informational/warning/error banners/notices.

```hbs
<Notice
  @type={{this.type}}
  as |notice|>
  <notice.Header>
    <h3>Header</h3>
  </notice.Header>
  <notice.Body>
    <p>
      Body
    </p>
  </notice.Body>
</Notice>
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info|warning|error]</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)

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@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
}
/**/
.notice.success {
  @extend %notice-success;
}
.notice.warning {
  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
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%notice {
  border-radius: $decor-radius-100;
  border: $decor-border-100;
  color: $black;
}
%notice::before {
  @extend %as-pseudo;
}
%notice header > * {
  @extend %h300;
}
%notice footer * {
  @extend %p3;
  font-weight: $typo-weight-bold;
}
%notice-success, %notice-info, %notice-highlight, %notice-error, %notice-warning {
  @extend %notice;
}
%notice-success {
  background-color: $green-050;
  border-color: $green-500;
}
%notice-info {
  border-color: $blue-100;
  background-color: $gray-010;
}
%notice-info header * {
  color: $blue-700;
}
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---

layout: api
page_title: License - Operator - HTTP API
description: |
The /operator/license endpoint allows for retrieving the Consul Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>------</td>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).
<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster’s license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `- dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
...
"customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
"package": "premium"
},
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}

## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

### Sample Request

```
$ curl \
   --request DELETE \n   http://127.0.0.1:8500/v1/operator/license
```  

### Sample Response

```
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffce85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
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</BlockSlot>
</Confirmation>
</BlockSlot>
</Action>
</Actions>
</BlockSlot>
</ListCollection>
```go
package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"
```
// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
  Entity

  Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

  // no documentation yet
  KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

  // no documentation yet
  Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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layout: docs
page_title: Consul Enterprise License FAQ
description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.
---

# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

## Q: Is there a tutorial available for the license configuration steps?
Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](https://www.consul.io/docs/enterprise/license)
- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.
## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.
When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `['consul license get -signed']` to extract the license from their running cluster. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.

1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.

1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false` in your `values.yaml` file.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM
1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?
If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```yaml
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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include/GL/g1.h :
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include/GL/glxext.h
include/GL/wglxext.h :

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1.825 servlet-api 4.0.0

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1.829 ipmi-tool 1.8.18

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1.838 jackson-databind 2.12.0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            return nil
        }
        return 
    })
// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
return nil
}
if err != nil {
t.Fatal(err)
}

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1.854 queue v1.1.0

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**1.855 runtime v0.19.4**

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1.866 pflag v1.0.5

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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/recompile.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/Unpooled.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/SlicedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufUtil.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PoolThreadCache.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java

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- the files in UnitaryTests/

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```
include/GL/gl.h
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Mesa 3-D graphics library

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---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h

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

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```

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```python
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```
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This is free software, and you are welcome to redistribute it
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@end smallexample

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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

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performs whatever part of its purpose remains meaningful.

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

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

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

1.913 go-flowrate v0.0.0-20140419014527-cca7078d478f

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1.914 pigz 2.4

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1.915 kubernetes 1.19.8

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL string `json:"url,omitempty"
}

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```
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "; n.Plugin)
    } else {
        s += fmt.Sprintf("Option "; n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in "; + n.Version + "."
    } else if n.Severity == newdefault {
```
s += "is added as a default in " + n.Version + "." 
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\ `-c <container-name>`

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\ <namespace>/` .

- `\ `<pod-namespace>/\<pod-name>/:\<path>`

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import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}

return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{}
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{}
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...]...) 
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key: req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{}}

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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tomb - support for clean goroutine termination in Go.

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= vendor/golang.org/x/xerrors/LICENSE a413d6b3884e141783f23d00d5838777

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

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1.918 x-sync v0.0.0-20210220032951-036812b2e83c

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1.919 lcms 2.6 3.el7

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Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
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Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274774525
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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags""
// List of features enabled by the license
Features []string `json:`features``
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest(`GET`, `/v1/operator/license`)
    r.params.Set(`signed`, `1`)
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return ``, err
    }
    defer resp.Body.Close()
    defer ioutil.ReadAll(resp.Body)
    if err != nil {
        return ``, err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest(`DELETE`, `/v1/operator/license`)
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
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compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
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compiler/cpp/src/parse/t_program.h
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lib/netstd/src/Protocol/TBinaryProtocol.cs
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lib/netstd/src/Server/TSimpleServer.cs
lib/netstd/src/Server/TThreadPoolServer.cs
lib/netstd/src/TApplicationException.cs
lib/netstd/src/Thrift.csproj
lib/netstd/src/Thrift.sln
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lib/netstd/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/netstd/ThriftMSBuildTask/ThriftBuild.cs
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test/OptionalRequiredTest.cpp
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// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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jar/io/netty/buffer/PoolArena.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/SlicedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/PoolChunkList.java

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jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/SearchProcessor.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

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* `/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1.jar/io/netty/buffer/search/MultiSearchProcessorFactory.java`
* `/opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1.jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java`

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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/FixedCompositeByteBuf.java
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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
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  jar/io/netty/buffer/SizeClasses.java
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  jar/io/netty/buffer/LongPriorityQueue.java
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  jar/io/netty/buffer/WrappedCompositeByteBuf.java
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1.927 tomb-v1 v1.0.0-20141024135613-dd632973f1e7

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1.935 structs v1.1.0

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1.947 go-yaml v3.0.0-20200615113413-eeeca48fe776

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  jar/io/netty/channel/sctp/SctpMessage.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/SslProvider.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/compression/Crc32.java
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  jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
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  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/concurrent/Promise.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/ChannelId.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/compression/HttpDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/socks/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
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jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/EmptyArrays.java
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jar/io/netty/buffer/EmptyByteBuf.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/logging/MessageFormatter.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.  
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
 * </ul>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
*
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     
*     <b>private boolean loggedIn;</b>
* 
*     <code>@Override</code>
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* 
*     <pre>
*   Because the handler instance has a state variable which is dedicated to
*   one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer }&lt;{ @link Channel }&gt; { 
*     { @code @Override }
*     public void initChannel( { @link Channel } channel ) { 
*         channel.pipeline().addLast( "handler", &lt;b&gt;new DataServerHandler()&lt;/b&gt; );
*     }
* }
* }
* </pre>
*
* &lt;h4&gt;Using { @link AttributeKey }s&lt;/h4&gt;
*
* Although it’s recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey }s which is provided by
* { @link ChannelHandlerContext }:
* &lt;pre&gt;
* public interface Message { 
*     // your methods here
* }
* 
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; { 
*     private final { @link AttributeKey }&lt;{ @link Boolean }&gt; auth = 
*             { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth") };
* 
*     { @code @Override }
*     public void channelRead( { @link ChannelHandlerContext } ctx, Message message ) { 
*         { @link Attribute }&lt;{ @link Boolean }&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) { 
*             if ( &lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt; ) { 
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else { 
*                 fail();
*             }
*         }
*         ...
*     }
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }. you can add the
* same handler instance to different pipelines:
*<pre>*
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>*

*<h4>The {@code @Sharable} annotation</h4>*
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
*<p>*
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
*<p>*
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*<p>*
* This annotation is provided for documentation purpose, just like
*
*<h3>Additional resources worth reading</h3>*
*<p>*
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/Buffer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
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jar/io/netty/util/internal/CleanerJava6.java
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jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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jar/io/netty/example/stomp/websocket/StompWebSocketFrameEncoder.java
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jar/io/netty/example/stomp/websocket/StompVersion.java
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*/
/**
*/
/**
* Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the {code TCP_QUICKACK} option on the socket.
* See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
*/

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jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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jar/io/netty/example/uptime/UptimeServerHandler.java
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jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
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jar/io/netty/channel/socket/ChannelInputShutdownException.java
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jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
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jar/io/netty/channel/HostsFileEntries.java
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jar/io/netty/chrold/ssl/SniCompletionEvent.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
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/*
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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 * under the License.
 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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ar/jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
ar/jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/UnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/D.SetTextBody.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/D.Here.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/DefaultHttp2GoAwayFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/UnpooledDirectByteBuf.java
jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java
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jar/io/netty/util/internal/logging/InternalLogger.java

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jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is \( 12 \text{ (0x0C)} \) which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * | lengthFieldOffset | lengthFieldLength | lengthAdjustment | initialBytesToStrip |
 * |------------------|------------------|------------------|---------------------|
 * | 0                | 2                | 0                | 0                   |
 * </pre>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-----------------+-----------------+-----------------+-------------------+
 * | Length | Actual Content | Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | 0x000C | "HELLO, WORLD" |
 * +-----------------+-----------------+-----------------+-------------------+
Because we can get the length of the content by calling
\{@link ByteBuf#readableBytes()\}, you might want to strip the length
field by specifying \texttt{initialBytesToStrip}. In this example, we
specified \texttt{2}, that is same with the length of the length field, to
strip the first two bytes.

\begin{verbatim}
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
\end{verbatim}

\begin{verbatim}
\texttt{initialBytesToStrip} = \texttt{2} (= the length of the Length field)
\end{verbatim}

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
\texttt{lengthAdjustment}. Because the length value in this example message
is always greater than the body length by \texttt{2}, we specify \texttt{-2} as
\texttt{lengthAdjustment} for compensation.

\begin{verbatim}
lengthFieldOffset   = 0
lengthFieldLength   = 2
\end{verbatim}

\begin{verbatim}
\texttt{lengthAdjustment} = \texttt{-2} (= the length of the Length field)
\texttt{initialBytesToStrip} = 0
\end{verbatim}

The following message is a simple variation of the first example. An extra
* header value is prepended to the message.  \texttt{lengthAdjustment} is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \begin{pre}
* \texttt{lengthFieldOffset} = \texttt{2} (= the length of Header 1)
* \texttt{lengthFieldLength} = \texttt{3}
* \texttt{lengthAdjustment} = 0
* \texttt{initialBytesToStrip} = 0
* \end{pre}
* \textbf{BEFORE DECODE (17 bytes)}                      \textbf{AFTER DECODE (17 bytes)}
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* \end{pre}
* \textbf<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* \textbf<h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
* \text{This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.
* \end{pre}
* \texttt{lengthFieldOffset} = 1 (= the length of HDR1)
* \texttt{lengthFieldLength} = 2
* `<b>lengthAdjustment</b>` = `<b>1</b>` (= the length of HDR2)
* `<b>initialBytesToStrip</b>` = `<b>3</b>` (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* </pre>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message

* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* `<pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* `<b>lengthAdjustment</b>` = `<b>-3</b>` (= the length of HDR1 + LEN, negative)
* `<b>initialBytesToStrip</b>` = `<b>3</b>`
* </pre>`

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+-----------------+      +-----------------+-----------------+
* </pre>

* @see LengthFieldPrepender
*/

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1.961 golang-snappy 0.0.1

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compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrifty.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
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1.972 spdylay 1.4.0
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Found in path(s):
* /opt/cola/permits/1168237001_1621962030.66/0/netty-transport-4-1-63-final-jar/META-INF/native-
image/io.netty/transport/native-image.properties

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274755207
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;ver-
v
sion="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;
version="[4.1,5)",io.netty.internal.logging;version="[4.1,5)",sun.nio.ch;
resolution:=optional,org.eclipse.jetty.npn;version="[1,2)",resolution:=optional,org.
eclipse.jetty.alpn;version="[1,2)",resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.re
solver,io.netty.util";version="4.1.63",io.netty.channel;uses:="io.net
ty.bootstrap,io.netty.buffer,io.netty.util";version="4.1.63",io.netty.channel.embedded;uses:="io.netty.channel";
v
ersion="4.1.63",io.netty.channel.group;uses:="io.netty.channel,io.net
ty.channel.concurrent";version="4.1.63",io.netty.channel.internal;versio
n="4.1.63",io.netty.channel.local;uses:="io.netty.channel";version="4
.1.63",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,i
o.netty.util,io.netty.channel.concurrent";version="4.1.63",io.netty.cha
nel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.63",io.
netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.net

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1.975 grpc v1.32.0

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1.976 netbase 5.4

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1.978 golang-snappy v0.0.3

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1.982 utils v0.0.0-20200603063816-c1c6865ac451

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    `,}
#
# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```bash
$ go get go.uber.org/tools/update-license
```

## Usage

```bash
```
## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

```go
package main

import (
    "testing"
)

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
        `package main`,
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```

```go
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
        `package main`,
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        package main

        import ( 
            "testing"
        )

        func TestUpdateData(t *testing.T) {
            tests := []struct { 
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                output  string
                year    int
                license string
            }{
                `package main`,
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runTestUpdateData(t, test.input, test.output, test.year, test.license)
}
}
func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
    actualOutput := string(updateData([]byte(input), year, license, "Uber Technologies, Inc."),
    if output != actualOutput {
        t.Errorf("expected:
%s
actual:
%s", output, actualOutput)
    }
}

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1.985 go-openapi-spec v0.19.3

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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// limitations under the License.

package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.986 go-yaml v2.4.0

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Go package for parsing (and, eventually, generating)
log lines in the logfmt style.

See http://godoc.org/github.com/kr/logfmt for format, and other documentation and examples.

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Found in path(s):
* /opt/cola/permits/1121676937_1610393508.65/0/github-com-kr-logfmt-zip/Readme

1.989 libc 2.28-10
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1.996 google-api-go-client v0.42.0

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1.1008 mitchellh-mapstructure v1.4.1

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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1.1020 libelf 0.182-r0

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Found in path(s):

* /opt/cola/permits/1196335134_1630677341.45/0/elfutils-0-182-r0-tar-gz/usr/bin/eu-make-debug-archive

1.1021 tools v0.0.0-20190106161140-3f1c8253044a

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.
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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java
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jar/org/apache/commons/logging/impl/LogFactoryImpl.java
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1.1045 pprof v0.0.0-20200507031123-427632fa3b1c

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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<signature of Ty Coon>, 1 April 1989
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**1.1062 netty-transport-native-epoll**

**4.1.51.Final**

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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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 * Allowing them being read would mean anyone with access to the channel could get them.
 */
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* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
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1.1065 dns v1.0.14

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goproperties - properties file decoder for Go

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL string `json:"url,omitempty"
}
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package simulator
import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager()).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...]...) 
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != 
    {
        if req.EntityId != Map.content().About.InstanceUuid 
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
    }
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
else {
    s += "is " + n.Severity + " in " + n.Version + "."
}

if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s

const {
    const (    // The following statuses are used to indicate the state of support/deprecation in a given release.
        deprecated  = "deprecated"  // deprecated, but still completely functional
        ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
        removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
        newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
        unsupported = "unsupported" // the plugin/option is not supported by the migration tool

        // The following statuses are used for selecting/filtering notifications
        all = "all" // show all statuses
    )

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COPYING CONTAINER FILES

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `</namespace>`.

- `</pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

runc

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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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1.1069 atomic v1.4.0

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1.1070 pretty v0.1.0

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BSON library for Go

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* *
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2.1. This Agreement consists of these General Conditions, and any Order Form(s) or Specific Conditions, which prevail over these General Conditions to the extent of any conflict. 2.2. This Agreement forms the entire agreement between the Parties relating to this subject matter, replaces and supersedes any previous proposals, correspondence and understandings, whether written or oral; including any Customer terms and conditions, which shall not apply. 2.3. This Agreement may not be altered, modified, amended, changed, rescinded or discharged in whole or in part, except by written agreement signed by both Customer and Axway. 2.4. Nothing contained in any document or purchase order submitted by Customer shall in any way modify or add to the terms of this Agreement.

ARTICLE 3 TERM
3.1. This Agreement shall remain in effect unless terminated in accordance with Article 17. The right of Use is granted from the Effective Date, or if none stated, upon Delivery by Axway. 3.2. If purchased by Customer, Support Services shall commence on the Effective Date and shall continue for an initial period of one (1) year (Initial Support Term) except as otherwise set forth in the Order Form. Upon expiration of the Initial Support Term, the Support Services shall be automatically renewed for one (1) year periods, with payments required prior to the start of the new support term, unless and until terminated in accordance with Article 17. 3.3 The terms of this Article 3.3 apply if Customer is obtaining an evaluation license. Subject to the terms of this Agreement, Axway grants to Customer (i) a non-exclusive, non-transferable license, without right of sublicense, to install and Use the Licensed Component, in object code form and/or (ii) the right to Use the Hardware Product for evaluation and trial purposes only. The term of this license begins upon delivery or download and extends thirty (30) days thereafter, or extends for such longer period as Axway shall have agreed to in writing (the "Evaluation Period"). When the Evaluation Period expires Customer must stop Using the Licensed Component, and return any Product to Axway. Axway disclaims all warranties during this Evaluation Period and Customer waives all claims against Axway related to this Evaluation Period.

ARTICLE 4 USE OF THE LICENSED COMPONENT
4.1. As of the Effective Date of this Agreement, Axway grants to Customer, subject to the terms and conditions of this Agreement, a perpetual, non-exclusive, non-assignable and non-transferable right to Use the Licensed Component for Customers own internal business purposes only. Any delay in any payment of the fees related to this Agreement as set forth in Article 8 thirty (30) days beyond the payment date will automatically suspend the right to Use the Licensed Component for Customer, upon written notice by Axway. The Product, including portions and information or materials thereof, may not be used for any purpose that would be a violation of this Agreement. All
rights not addressed herein are specifically reserved by Axway. Customer shall not Use the Product to provide services to third parties, including ASP, facilities management, outsourcing, unless expressly provided for in an Order Form. 4.2. If Customer has purchased a license for Products which are used by Customer to distribute to any third party Trading Partner that has a business need to securely transfer files to or from Customer, then the sublicense such Trading Partner has conveys the right to Use the Product for the purpose of transferring files to and from Customer in the furtherance of Customers internal business purposes only. 4.3. If Customer wishes to permanently transfer the Licensed Component to a new Operating Environment, the Order Form associated with this Agreement will have to be updated accordingly. Once the transfer has been made to the new authorized Operating Environment, Customer shall erase the Licensed Component from the former Operating Environment, within the time frame allowed in the Order Form. 4.4. Customer has the right to make one back-up copy of the Licensed Component for archival purpose only. Any other copies, reproductions and summaries of the Licensed Component or Documentation are prohibited.

ARTICLE 5 DELIVERY AND WARRANTY
5.1. Axway shall provide Customer with the Licensed Component in object code form and with the Documentation. Full title to the Hardware Product passes to Customer upon Delivery. Products are delivered Free On Board (FOB) shipping point with freight and insurance prepaid. 5.2. The Use of certain Licensed Components will require a key. The key will be generated by Axway based on computertdependent Customer information. Customer agrees to provide the necessary information as required to generate and activate the key. 5.3. THE TERMS OF THIS AGREEMENT ARE INSTEAD OF ALL WARRANTIES, CONDITIONS, TERMS, UNDERTAKINGS AND OBLIGATIONS IMPLIED BY STATUTE, COMMON LAW, CUSTOM, TRADE USAGE, COURSE OF DEALING OR OTHERWISE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY LAW.

ARTICLE 6 SUPPORT SERVICES
6.1. Upon payment of the applicable fees, Axway will provide technical Support Services, at the level specified on the Order Form. 6.2. Axway is under no obligation to provide Support Services (i) if there has been a modification or attempted modification of the Product (other than modifications made by Axway and delivered as part of the Product) or the Product has been improperly installed by Customer or operated or used other than in accordance with this Agreement and the Documentation; or (ii) if Customer has refused, delayed or otherwise failed to implement a release or other modification that Axway has provided or recommended.

ARTICLE 7 ADDITIONAL SERVICES
7.1. In accordance with its expertise and availability, Axway will, if ordered by Customer, provide services that may include installation, implementation, technical and training assistance services for the Product, or subscription-based services ("Additional Services") to Customer at the rates set forth in the Order Form or, if no rates are set forth, the rates in effect at the time that such Services are provided. 7.2. Except for Retained Works (defined below), all right and title to professional services deliverables shall belong to Customer. Axway will be the owner of any Retained Works, which are defined to include: (i) any pre-existing materials, including any of Axway's preexisting software code, proprietary software tools, or training materials incorporated into the deliverables; (ii) any customized modifications to the Licensed Component unless an applicable work order, SOW or other such similar document expressly provides that such modifications are assigned to Customer; and (iii) any third party programs which are integrated with or incorporated into the deliverables. For any Retained Works incorporated into a deliverable, Axway grants Customer a non-exclusive, worldwide, royalty-free license to use such Retained Works to the same extent that Customer is licensed to use any related Licensed Component.

ARTICLE 8 PAYMENT TERMS AND CONDITIONS
8.1. The fees for the Products and Support Services are listed in the Order Form. In addition to the fees listed in the
Order Form, Customer shall be responsible for all personal property, sales, use, value-added, withholding and similar taxes (other than taxes on Axway's net income) arising from the transactions described in this Agreement. Where Customer's Use of the Software or receipt of Services is exempt from sales or other taxes, Customer shall provide Axway with the appropriate exemption certificate. All amounts payable under this Agreement shall be paid net thirty (30) days from the invoice date, unless stated otherwise in an Order Form. 8.2. The license fee is fixed and not subject to revision. It shall be invoiced in full on the Effective Date, unless stated otherwise in an Order Form. 8.3. Support Services fees shall be invoiced on the Effective Date and are due net thirty (30) days from the invoice date unless otherwise stated in an Order Form. Support Services fees are subject to annual revision as stated in the relevant Specific Conditions. 8.4. Fees for professional services shall be invoiced at the end of the month in which they are provided. Travel and accommodation expenses incurred to provide training, technical assistance, support and installation services shall be invoiced to Customer based on the actual and reasonable costs incurred by Axway. Supporting documents will be provided upon reasonable request. Fees for professional services are subject to annual revision as stated in the relevant Specific Conditions. 8.5. Fees or other amounts remaining unpaid for thirty (30) days following the date of invoice shall be considered overdue and shall remain payable by Customer together with interest for late payment from the date payable at the rate of 4% per annum above the base rate for the time being of Lloyds TSB Bank plc. In addition to the above provision for late payment, Axway reserves the right to suspend performance of any Additional Services (which includes hosting services, as applicable).

ARTICLE 9 CUSTOMER RESPONSIBILITIES
9.1. Unless the hosted option is selected, Customer shall be responsible for operating the Product and shall: ensure that the hardware, base program, network and operating system configuration are suitable, develop the operating measures, control procedures and security measures required for data backup and replacement in the event of interruption in Product operation, 9.2. Customer is also responsible for: protecting its own recorded data, and the results obtained and any direct or indirect consequences thereof, making qualified personnel available to resolve any problems, and appointing one of its employees to serve as the primary point of contact with Axway for any technical issues

ARTICLE 10 INTELLECTUAL PROPERTY
10.1. Only a right to Use the Licensed Component is granted to Customer; any extension of the right granted shall be subject to Axways prior written consent. The Parties acknowledge and agree that Customer has only Use rights with respect to the Licensed Component, but Customer owns the Hardware Product. Axway retains title in and to the Licensed Component, including any portion thereof and information, materials or copy made from it or any part of it and copyright in the Licensed Component. 10.2. If Customer wishes to make the Product interoperable with other programs, other than as envisaged in the Documentation, Axway may make the necessary information available to Customer upon receipt of a written request. 10.3. Except as otherwise provided for in this Agreement or permitted under applicable law, Customer will not, directly or through any person or entity, in any form or manner (i) copy, sublicense, lease, assign, distribute, reproduce, incorporate, use or allow access to the Product or modify, prepare derivative works from the Licensed Component except as explicitly permitted under this Agreement or (ii) decrypt, extract, decompile or otherwise reverse engineer the Licensed Component, or otherwise disassemble, derive or attempt to derive the source code of, or any processes, methods, specifications, protocols, algorithms, interfaces, data structures, or other information embodied or used in, the Product. The restrictions of this Article 10 shall survive the termination of the Agreement. If Customer has purchased licenses for a Trading Partner, Customer shall ensure each Trading Partner is bound to provisions at least as protective of Axway as Articles 4, 10, 12, 14 and 15. Customer shall promptly notify Axway of any unauthorized use, disclosure, reproduction, or distribution of any Product, which comes to Customers attention, or which Customer reasonably suspects. Customer may Use any Third Party Software products or modules supplied by Axway solely with the Licensed Component. 10.4. If, in the performance of any Additional Services hereunder, Axway is required to use any Customer supplied programs, Customer hereby warrants that it has obtained any necessary authorizations and licenses required to allow Axway to
access and use such program as necessary for performance of the Services. Customer shall provide any associated supporting documentation to Axway promptly upon request.

ARTICLE 11 INDEMNIFICATION 11.1. Axway agrees to defend, settle and indemnify Customer from and against any amounts payable under judgment, court order or settlement brought by any unaffiliated third party against Customer to the extent that such action results from actual or alleged infringement by any Product of any third party copyright, trade secret or patent existing or issued as of the date that Axway initially Delivered the applicable version of such Product to Customer. In connection with any allegation of infringement of any third party rights, Customer shall (and it shall be a condition of reliance upon the indemnity for Customer to): immediately notify Axway in writing of the allegation; and allow Axway sole control of the defense and any related settlement negotiations; and cooperate in good faith in the said defense and comply with all of Axways reasonable requests (at Axways expense) in defending or settling the claim. 11.2. Should Customers use of the Product be determined to have infringed any third party rights, or if in Axways judgment, such use is likely to be infringing, Axway shall endeavor at its option do one of the following, at its own expense: - procure for Customer the right to continue owning and/or using the Product, as applicable, - replace or modify the Product to make its Use non-infringing while yielding substantially equivalent functionality. If and only if the previous options are not, in Axways reasonable judgment, commercially reasonable, then Axway may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii) modifications or additions to the Product by Customer personnel (other than modifications at Axways direction) or (iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in writing that infringement or misappropriation may be avoided by use of the most recent version of such Product.

THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12 LIABILITY
12.1. Axway does not warrant that the Product will operate in combination with other software selected by Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including, without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2. Except for Axways obligations with respect to indemnification or confidentiality, Axway is not liable for any special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axways obligations with respect to indemnification or confidentiality, Axways liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. The foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential purpose. Axways liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited. 12.3. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise
a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.

ARTICLE 13 ADVERTISING
The Customer must include Axways name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14 ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15 CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute "Confidential Information". The Products, including any Documentations or portions thereof and information, material or copy derived there from, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party's Confidential Information and to limit disclosure of same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i) is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this Agreement.

ARTICLE 16 NON-SOLICITATION
16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.

ARTICLE 17 TERMINATION
17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if
capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18 WAIVER
The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19 SEVERABILITY
If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.

ARTICLE 20 ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axway’s prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.

ARTICLE 21 AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

ARTICLE 22 EXPORT
Customer shall not export, ship, transmit or re-export the Products or Documentation in violation of any applicable law or regulation.

ARTICLE 23 THIRD PARTY SOFTWARE
Certain Third Party Software may be provided with the Licensed Component(s) that is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Axway to make the source code for such portions publicly available (such as the
GNU General Public License ("GPL") or the GNU Library General Public License ("LGPL"), Axway will make such source code portions (including Axway modifications, as appropriate) available upon request for a period of up to three (3) years from the date of distribution. Such request can be made in writing to Axway Software - Tour W, 102 Terrasse Boieldieu, 92085 Paris La Dfense Cedex, France ATTN: Legal Department. Customer may obtain a copy of the GPL at http://www.gnu.org/licenses/gpl.html, and a copy of the LGPL at http://www.gnu.org/licenses/lgpl.html.

ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25 - GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales. Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined
maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. The maximum potential of resources used by a Sub-Capacity Partition equals the overall resources of the Operating Environment; Full-Capacity Partition means a Partition using all the resources of an Operating Environment. There can only be one Full-Capacity Partition per Operating Environment. If there is another partition, then both Partitions are Sub-Capacity Partitions; Sub-Capacity Partition means a partition using a subset of the resources of an Operating Environment; Passive (Non-Production) License refers to a cluster fail over or disaster recovery software architecture. The passive software doesn't execute unless the licensed production copy of the Licensed Component fails. Where Customer is not able to use its licensed production copy of the Licensed Component in the event of fail over, the Passive license will start executing after a service interruption. A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axways Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axways SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axways Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. Human User means, with respect to the applicable Product included in Axways Validation Authority product line, any human who has one or more associated digital certificates associated with such human that: (i) uniquely identify such human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Group User means, with respect to the applicable Product included in Axways Validation Authority product line, any group of humans that has one or more associated digital certificates that: (i) uniquely identify such group; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Non-Human User means, with respect to the applicable Product included in Axways Validation Authority product line, anything other than a Human User or Group User (such as a device) (Non-Human) that has one or more associated digital certificates that: (i) uniquely identify such Non-Human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product.

1.1085 x-net v0.0.0-20201110031124-69a78807bb2b

1.1085.1 Available under license:

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1.1086 python-requests 2.26.0

1.1086.1 Available under license:

Requests
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TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

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<signature of Ty Coon>, 1 April 1989
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(This file is under construction.)*- text -*.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.
Dean Elsner wrote the original gas for vax. [more details?]

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

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

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g., jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>

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

Preamble

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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.

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

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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.

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# Constant-time SSSE3 AES core implementation.
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Version 3, 29 June 2007

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
author: root

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1.1108 protobuf v1.23.0

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Protocol Buffers for Go with Gadgets

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

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1.1109 pcre 8.44-r0

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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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

Written by: Zoltan Herczeg
Email local part: hzmester
STACK-LESS JUST-IN-TIME COMPILER

Written by: Zoltan Herczeg
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1.1111 x-sys v0.0.0-20200519105757-fe76b779f299

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1.1112 python 3.7.3 2+deb10u3

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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1.1114 base-files 9.9+deb9u13

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1.1135 x-net v0.0.0-20210324051636-2c4c8ecb7826

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1.1138 go-cleanhttp v0.5.1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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base64.cpp and base64.h

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L. Peter Deutsch
ghost@aladdin.com

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
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1.1180 atomic v1.7.0

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tomb - support for clean goroutine termination in Go.

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1.1187 go-openapi-swag v0.19.14

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return nil
} 
if strings.HasSuffix(path, ".pb.go") {
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
} 
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
} 
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
} 
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
} 
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}

return nil
}) 
if err != nil {
t.Fatal(err)
}

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1.1190 mock v1.4.4

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//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

type Empty interface{}
// This is a mock copyright header.
//
// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.
//

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.

import (  
gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface

type MockEmpty struct {
  ctrl *gomock.Controller
  recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty

type MockEmptyMockRecorder struct {
  mock *MockEmpty
}

// NewMockEmpty creates a new mock instance

func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
  mock := &MockEmpty{ctrl: ctrl}
  mock.recorder = &MockEmptyMockRecorder{mock}
  return mock
}
// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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1.1194 uuid v1.1.1

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1.1195 elfutils 0.182-r0
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* /opt/cola/permits/1141673004_1616092057.55/0/elfutils-0-182-r0-tar-gz/usr/bin/eu-make-debug-archive

1.1196 sanitized-anchor-name v1.0.0
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1.1197 jwt v0.3.2

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1.1198 protobuf v1.4.2

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(1)

ExceptionConverter:
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(2)

SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt: http://www.javaworld.com/javaworld/javatips/jw-javatip128.html Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

(3)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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```
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```

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#
#  Gradle start up script for UN*X
#

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while [ -h "$PRG" ]; do
  ls=`ls -ld "$PRG"`
  link=`expr "$ls" : '.*-> \(.*\)$'`
  if expr "$link" : '/.*' > /dev/null; then
    PRG="$link"
  else
    PRG=`dirname "$PRG"`"/"$link
  fi
done
SAVED=""pwd"

cd ""dirname ""PRG"""" >/dev/null
APP_HOME=""pwd -P"

cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"`

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this
script.
DEFAULT_JVM_OPTS=""-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
echo "$*"
}

die () {
  echo
  echo "$*"
  echo
  exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "$uname" in
  CYGWIN*)
    cygwin=true
  ;;
  Darwin*)
    darwin=true
  ;;
  MINGW*)
    msys=true
  ;;
  NONSTOP*)
    nonstop=true
  ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

# Determine the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
  if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
    # IBM's JDK on AIX uses strange locations for the executables
    JAVACMD="$JAVA_HOME/jre/sh/java"
  else
    JAVACMD="$JAVA_HOME/bin/java"
  fi
fi
if [ ! -x "$JAVACMD" ] ; then
  die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
  fi
else

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JAVACMD="java"
which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH.

Please set the JAVA_HOME variable in your environment to match the location of your Java installation."

# Increase the maximum file descriptors if we can.
if [ "$cygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
  MAX_FD_LIMIT=`ulimit -H -n`
  if [ $? -eq 0 ] ; then
    if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max" ] ; then
      MAX_FD="$MAX_FD_LIMIT"
    fi
    ulimit -n $MAX_FD
    if [ $? -ne 0 ] ; then
      warn "Could not set maximum file descriptor limit: $MAX_FD"
    fi
  else
    warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
  fi
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
  GRADLE_OPTS="$GRADLE_OPTS \"-Xdock:name=$APP_NAME\" \"-Xdock:icon=$APP_HOME/media/gradle.icns\""
fi

# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
  APP_HOME=`cygpath --path --mixed "$APP_HOME"`
  CLASSPATH=`cygpath --path --mixed "$CLASSPATH"`
  JAVACMD=`cygpath --unix "$JAVACMD"`

  # We build the pattern for arguments to be converted via cygpath
  ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null` SEP="" for dir in $ROOTDIRSRAW ; do
    ROOTDIRS="$ROOTDIRS$SEP$dir"
    SEP="|"
  done
  OURCYGPATTERN="(^($ROOTDIRS))"

  # Add a user-defined pattern to the cygpath arguments
  if [ "$GRADLE_CYGPATTERN" != "" ] ; then
    OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
  fi
"
for arg in "$@" ; do
    CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN"`
    CHECK2=`echo "$arg"|egrep -c "^\-"`  ### Determine if an option
    if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then  ### Added a condition
        eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
    else
        eval `echo args$i`=""$arg"
    fi
    i=`expr $i + 1`
done

# Escape application args
save () {
    for i do printf %s\n "$i" | sed "s/'/'\\''/g;1s/^/'/;\$s/$/\/\"/" ; done
    echo " "
}

APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
exec "$JAVACMD" "$@

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1.1220 vfsgen v0.0.0-20200824052919-0d455de96546

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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2.6.4 2.6.3 2009 PSF yes
2.6.5 2.6.4 2010 PSF yes
2.7 2.6 2010 PSF yes

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-------

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.c
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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  master/operators/main.go
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  master/operators/api/v1alpha0/zz_generated.deepcopy.go
* /opt/cola/permits/1152701511_1630506814.8/0/kubernetes-master-2-zip/kubernetes-
  master/operators/controllers/suite_test.go
* /opt/cola/permits/1152701511_1630506814.8/0/kubernetes-master-2-zip/kubernetes-
  master/operators/api/v1alpha0/groupversion_info.go
* /opt/cola/permits/1152701511_1630506814.8/0/kubernetes-master-2-zip/kubernetes-
  master/operators/api/v1alpha0/config_types.go

1.1236 v4 v4.0.1

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submodule Cisco-IOS-XE-license {
  belongs-to Cisco-IOS-XE-native {
    prefix ios;
  }
}

organization
"Cisco Systems, Inc."

contact
"Cisco Systems, Inc.
Customer Service
Postal: 170 W Tasman Drive
San Jose, CA 95134
description
"Cisco XE Native License Yang model.
Copyright (c) 2016 by Cisco Systems, Inc.
All rights reserved.";

// =========================================================================
// REVISION
// =========================================================================
revision 2017-12-01 {
    description
    "Add licenses boot level addon for cat3k";
}
revision 2017-10-18 {
    description
    "Add licenses boot level on switch and smart licensing";
}
revision 2017-05-25 {
    description
    "Add licenses ax and security";
}
revision 2017-02-07 {
    description
    "Initial revision";
}

grouping config-license-grouping {
    container license {
        description
        "Configure license features";
        // license udi
        container udi {
            leaf pid {
                type string;
            }
            leaf sn {
                type string;
            }
        }
        //license feature
        container feature {
            description
            "License features";
            leaf name {
type string;
}
container port {
    description
    "Enable Ports for IM";
    leaf bulk {
        description
        "Enable Bulk port licenses";
        type empty;
    }
    leaf onegig {
        description
        "Enable 1G port bundles";
        type uint8 {
            range "1..2";
        }
    }
    leaf b-6xonegig {
        description
        "Enable 6x1G port bundles";
        type uint8 {
            range "1..2";
        }
    }
    leaf tengig {
        description
        "Enable 10G port bundles";
        type uint8 {
            range "1..2";
        }
    }
}
// license accept
container accept {
    leaf end {
        type empty;
    }
    leaf user {
        type empty;
    }
    leaf agreement {
        type empty;
    }
}
// license boot
container boot {
    description
"license boot config commands";
container level {
    description
    "which level to boot";
    choice license-choice {
        case ipbase-case {
            container ipbase{
                description
                "ipbase level";
                presence "true";
                leaf switch {
                    description
                    "Switch license information";
                    type uint8;
                }
            }
        }
        case ipbasek9-case {
            container ipbasek9 {
                description
                "License Level IPBASEK9";
                presence "true";
                leaf addon {
                    description
                    "select add-on to include";
                    type enumeration {
                        enum "dna-advantage";
                        enum "dna-essentials";
                    }
                }
            }
        }
        case ipservices-case {
            container ipservices {
                description
                "ipservices level";
                presence "true";
                leaf switch {
                    description
                    "Switch license information";
                    type empty;
                }
            }
        }
        case ipservicesk9-case {
            container ipservicesk9 {
                description
                "ipservicesk9 level";
            }
        }
    }
}
presence "true";
leaf addon {
    description
    "select add-on to include";
    type enumeration {
        enum "dna-advantage";
        enum "dna-essentials";
    }
}
}
}
case lanbase-case {
    container lanbase {
        description
        "lanbase level";
        presence "true";
        leaf switch {
            description
            "Switch license information";
            type empty;
        }
    }
}
}
case lanbasek9-case {
    container lanbasek9 {
        description
        "License Level LANBASEK9";
        presence "true";
        leaf addon {
            description
            "select add-on to include";
            type enumeration {
                enum "dna-essentials";
            }
        }
    }
}
}
case lite-case {
    container lite {
        description
        "lite level";
        presence "true";
        leaf switch {
            description
            "Switch license information";
            type empty;
        }
    }
}
case metroaggservices-case {
    container metroaggservices {
        description
            "metroaggservices level";
        presence "true";
        leaf switch {
            description
                "Switch license information";
            type empty;
        }
    }
}

case metroipservices-case {
    leaf metroipservices {
        description
            "Metroipservices License Level";
        type empty;
    }
}

case metroservices-case {
    leaf metroservices {
        description
            "Metroservices License Level";
        type empty;
    }
}

case advancedmetroipaccess-case {
    leaf advancedmetroipaccess {
        description
            "Advanced Metro IP Access License Level";
        type empty;
    }
}

case metroaccess-case {
    leaf metroaccess {
        description
            "Metro Access License Level";
        type empty;
    }
}

case metroipaccess-case {
    leaf metroipaccess {
        description
            "Metro IP Access License Level";
        type empty;
    }
}
case entservices-case {
leaf entservices {
    description
    "Entservices License Level";
    type empty;
}
}

case adventerprise-case {
leaf adventerprise {
    description
    "Adventerprise License Level";
    type empty;
}
}

case appx-case {
leaf appx {
    description
    "Appx License Level";
    type empty;
}
}

case appxk9-case {
leaf appxk9 {
    description
    "Appxk9 License Level";
    type empty;
}
}

case ax-case {
leaf ax {
    description
    "ax(ipb+sec+appx) License Level";
    type empty;
}
}

case security-case {
leaf security {
    description
    "Security License Level";
    type empty;
}
}

case securityk9-case {
leaf securityk9 {
    description
    "Securityk9 License Level";
    type empty;
}
}
case uck9-case {
    container uck9 {
        description
        "Uck9 License Level";
        presence "true";
        leaf disable {
            type empty;
        }
    }
}

case network-advantage-case {
    container network-advantage {
        description
        "License Level Network-Advantage";
        presence true;
        leaf addon {
            description
            "select add-on to include";
            type enumeration {
                enum "dna-advantage";
                enum "dna-essentials";
            }
        }
    }
}

case network-essentials-case {
    container network-essentials {
        description
        "License Level Network-Essentials";
        presence true;
        leaf addon {
            description
            "select add-on to include";
            type enumeration {
                enum "dna-essentials";
            }
        }
    }
}

case AdvUCSuiteK9-case {
    leaf AdvUCSuiteK9 {
        description
        "AdvUCSuiteK9 License Level";
        type empty;
    }
}

case FoundationSuiteK9-case {
leaf FoundationSuiteK9 {
  description
  "FoundationSuiteK9 License Level";
  type empty;
}

//license boot module
container boot-module {
  leaf module {
    type enumeration {
      enum "c2900";
    }
  }
}

container technology-package {
  leaf securityk9 {
    type empty;
  }
  leaf uck9 {
    type empty;
  }
  leaf datak9 {
    type empty;
  }
}

container smart {
  description
  "Smart licensing";
  leaf customer-id {
    description "Customer defined id";
    type string;
  }
  leaf enable {
    description
    "Enable Smart licensing";
    type empty;
  }
  leaf transport-type {
    type enumeration {
      enum "callhome";
      enum "smart";
    }
  }
  description
"The transport type. If transport-type is set to callhome then any additional transport settings must be done from the callhome CLI. If the transport-type is set to smart, additional settings are available below.

} container privacy {
  leaf hostname {
    type empty;
  }
  leaf version {
    type empty;
  }
}

} container utility {
  description "Enable or disable usage reporting on the device";
  leaf enable {
    description "Enable or disable usage reporting";
    type empty;
  }
}

} container customer-info {
  leaf city {
    description "Customer defined city";
    type string;
  }
  leaf country {
    description "Customer defined country";
    type string;
  }
  leaf id {
    description "Customer defined id";
    type string;
  }
  leaf name {
    description "Customer defined name";
    type string;
  }
  leaf postalcode {
    description "Customer defined postalcode";
    type string;
  }
  leaf state {
    description "Customer defined state";
    type string;
  }
  leaf street {
    description "Customer defined street";
  }
type string;

}

}

}

container url {

description
"Specify the Smart Transport primary and the Utility URL";

choice url-setting {

description
"Specify the URL(s) used for communications to the SSM,
satellite or Third Party Billing Platform.";

case set-default {

leaf default {

type empty;

description
"Enable the default URLs for both
url-registration and url-utility that point to
the Cisco SSM."

}

}

}

case set-urls {

leaf name {

type string;

description
"Specify the URL used for registration, authorization and
anything else not related to utility usage reporting.";

}

leaf utility {

type string;

description
"Specify the URL to be used for sending utility usage
reports. This should be the same as url-registration
if you are using a satellite.";

}

}

}

}

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module CISCO-LICENSE-MGMT-MIB {

prefix CISCO-LICENSE-MGMT-MIB;

import ENTITY-MIB {
    prefix "entity-mib";
}

import INET-ADDRESS-MIB {
    prefix "inet-address";
}

import SNMP-FRAMEWORK-MIB {
    prefix "snmp-framework";
}

import SNMPv2-TC {
    prefix "snmpv2-tc";
}

import ietf-yang-smiv2 {
    prefix "smiv2";
}

organization "Cisco Systems Inc.";

contact "Cisco Systems
Customer Service
Postal: 170 W Tasman Drive
San Jose, CA  95134"
description
"The MIB module for managing licenses on the system. The licensing mechanism provides flexibility to enforce licensing for various features in the system.

The following text introduces different concepts and terms those are necessary to understand the MIB definition and to perform license management.

UDI
Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:
Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:
Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:
Metered licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:
End User License Agreement.

EVALUATION LICENSE:
Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User will have to accept EULA (End User License Agreement) before using an evaluation license. Even
though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:
Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:
Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:
Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:
Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:
Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:
Uncounted licenses do not limit the number of similar
entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIIB module supports both.

IMAGE LEVEL LICENSING:
A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:
Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:
A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:
File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:
Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:
Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the
proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:
Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:
Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:
Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:
To install a license, the management application
1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:
To clear a license, the management application
1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:
To rehost a license, the management application
1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.
6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:
To regenerate last rehost ticket, the management application
1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:
To backup all licenses installed in the device, the management application
1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:
To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.
1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.
This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.

revision 2012-04-19 {
  description
  "This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:
  o Updated clmgmtLicenseType object to support the following new types of license:
    permanentRightToUse

  The new module compliance is ciscoLicenseMgmtComplianceRev1."
}

revision 2011-04-19 {
  description
  "This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:
  o Added RTU license definition to MIB description above.
  o Updated clmgmtLicenseType object to support the following new types of license:
    evalRightToUse
    rightToUse
  o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicensePeriodUsed
  o Added following objects to clmgmtLicensableFeatureTable
    clmgmtFeaturePeriodUsed
  o Added the following notifications
    clmgmtLicenseEvalRTUTransitionWarning
    clmgmtLicenseEvalRTUTransition
  o Added the following conformance groups
    clmgmtLicenseRTUGroup
    clmgmtLicenseRTUUsageNotifGroup"
The new module compliance is ciscoLicenseMgmtComplianceRev1.

 revision 2008-11-21 {
   description
   "This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:
   o Updated clmgmtLicenseType object to support the following three new types of licenses:
     paidSubscription
     evaluationSubscription
     extensionSubscription
   o Added following objects to clmgmtLicenseInfoTable
     clmgmtLicenseStartDate
     clmgmtLicenseEndDate
   o Added following objects to clmgmtLicensableFeatureTable
     clmgmtFeatureStartDate
     clmgmtFeatureEndDate
   o Added the following notifications
     clmgmtLicenseSubscriptionExpiryWarning
     clmgmtLicenseSubscriptionExtExpiryWarning
     clmgmtLicenseSubscriptionExpired
   o Added the following conformance groups
     clmgmtLicenseSubscriptionGroup
     clmgmtLicenseSubscriptionUsageNotifGroup
   The new module compliance is ciscoLicenseMgmtComplianceRev1.

 revision 2006-10-03 {
   description
   "Initial version of this MIB module."
   }
   typedef ClmgmtLicenseIndex {
     type uint32 {
       range "1..4294967295";
     }
   }
   description
   "A unique value, for each license in the managed system. It is not necessary to have values assigned contiguously. The value for each license must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization";
   }
typedef ClmgmtLicenseIndexOrZero {
  type uint32;
  description
  "This textual convention is an extension of the ClmgmtLicenseIndex
  convention. The latter defines a greater than zero value
  used to identify a license in the managed system. This
  extension permits the additional value of zero. The value
  zero is object-specific and must therefore be defined as
  part of the description of any object which uses this
  syntax. Examples of the usage of zero might include
  situations where license was not present or unknown.";
}

typedef ClmgmtLicenseTransferProtocol {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "local" {
      value "2";
    }
    enum "tftp" {
      value "3";
    }
    enum "ftp" {
      value "4";
    }
    enum "rcp" {
      value "5";
    }
    enum "http" {
      value "6";
    }
    enum "scp" {
      value "7";
    }
    enum "sftp" {
      value "8";
    }
  }
  description
  "The transfer protocol that should be used for copying files
  when performing license management. When the protocol is
  set to local(2), local file system (flash or disk) is used.
  Different agents may support different transfer protocols
  and the management application is expected to some how determine
  which protocol is supported and use.";
}
typedef ClmgmtLicenseActionState {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "pending" {
            value "2";
        }
        enum "inProgress" {
            value "3";
        }
        enum "successful" {
            value "4";
        }
        enum "partiallySuccessful" {
            value "5";
        }
        enum "failed" {
            value "6";
        }
    }
    description
        "The state of license action execution.

        none(1)                - action is not yet scheduled to be
executed.

        pending(2)             - All the required parameters for the
action are set and the action is
scheduled to be executed.

        inProgress(3)          - action execution has started and is
in progress.

        successful(4)         - action has completed successfully.

        partiallySuccessful(5) - action has completed, but was
partially successful. Management
application can query additional MIB
objects to know what is successful
and what has failed. These additional
objects are listed in the
description of the corresponding
action tables.

        failed(6)              - action has failed."
}
typedef ClmgmtLicenseActionFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "generalFailure" {
            value "2";
        }
        enum "transferProtocolNotSupported" {
            value "3";
        }
        enum "fileServerNotReachable" {
            value "4";
        }
        enum "unrecognizedEntPhysicalIndex" {
            value "5";
        }
        enum "invalidLicenseFilePath" {
            value "6";
        }
        enum "invalidLicenseFile" {
            value "7";
        }
        enum "invalidLicenseLine" {
            value "8";
        }
        enum "licenseAlreadyExists" {
            value "9";
        }
        enum "licenseNotValidForDevice" {
            value "10";
        }
        enum "invalidLicenseCount" {
            value "11";
        }
        enum "invalidLicensePeriod" {
            value "12";
        }
        enum "licenseInUse" {
            value "13";
        }
        enum "invalidLicenseStore" {
            value "14";
        }
        enum "licenseStorageFull" {
            value "15";
        }
    }
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket" {
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}

description
"Reason for license action failure. Defines error codes for all the license actions.

  none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

  generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

  transferProtocolNotSupported(3) - protocol selected is not supported.

  fileServerNotReachable(4) - file server is not reachable.

  unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

  invalidLicenseFilePath(6) - The license file path is not accessible.

  invalidLicenseFile(7) - Contents of license file are not valid.

  invalidLicenseLine(8) - License string in the license file is not valid.
licenseAlreadyExists(9) - Management application is trying
to install a license that already
exists.
licenseNotValidForDevice(10) - This license is not valid for
the device/entPhysicalIndex
specified.
invalidLicenseCount(11) - Invalid count for this counted
license.
invalidLicensePeriod(12) - Validity period is invalid for
this expiring license.
licenseInUse(13) - License file is in use by a
feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the
license storage.
invalidPermissionTicketFile(16) - The permission ticket file
path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
not accessible.
invalidRehostTicket(19) - The rehost ticket file contents
are not valid.
invalidLicenseBackupFile(20) - License backup store path
is not accessible.
licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This
error code is sent back in
response to a license backup
action when a license clear
action is in progress or in
pending state. Try again in few
seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.
};

container CISCO-LICENSE-MGMT-MIB {
config false;
}

container clmgmtLicenseConfiguration {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

  leaf clmgmtNextFreeLicenseActionIndex {
    type uint32 {
      range "1..4294967295";
    }
  }
}
This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

  leaf clmgmtNextFreeDevCredExportActionIndex {
    type uint32;
    description
    "This object contains appropriate value for clmgmtDevCredExportActionIndex that can be used to create an entry in clmgmtDevCredExportActionTable. The management application should read this object first and then use this as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
}
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

leaf clmgmtLicenseUsageNotifEnable {
  type boolean;
  description
  "This object indicates whether the device should generate
  the notifications related to usage of licenses. This object
  enables/disables sending following notifications:
  clmgmtLicenseExpired
  clmgmtLicenseExpiryWarning
  clmgmtLicenseUsageCountExceeded
  clmgmtLicenseUsageCountAboutToExceed
  clmgmtLicenseSubscriptionExpiryWarning
  clmgmtLicenseSubscriptionExtExpiryWarning
  clmgmtLicenseSubscriptionExpired
  clmgmtLicenseEvalRTUTransitionWarning
  clmgmtLicenseEvalRTUTransition";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}

leaf clmgmtLicenseDeploymentNotifEnable {
  type boolean;
  description
  "This object indicates whether the device should generate
  notifications related to license deployment. This object
  enables/disables sending following notifications:
  clmgmtLicenseInstalled
  clmgmtLicenseCleared
  clmgmtLicenseRevoked
  clmgmtLicenseEULAAccepted";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}

leaf clmgmtLicenseErrorNotifEnable {
  type enumeration {
    enum "other" {
      value "0";
    }
    enum "true" {
      value "1";
    }
    enum "false" {
      value "2";
    }
  }

  description
  "This object indicates whether the device should generate
  the notifications related to usage of licenses. This object
  enables/disables sending following notifications:
  clmgmtLicenseExpired
  clmgmtLicenseExpiryWarning
  clmgmtLicenseUsageCountExceeded
  clmgmtLicenseUsageCountAboutToExceed
  clmgmtLicenseSubscriptionExpiryWarning
  clmgmtLicenseSubscriptionExtExpiryWarning
  clmgmtLicenseSubscriptionExpired
  clmgmtLicenseEvalRTUTransitionWarning
  clmgmtLicenseEvalRTUTransition";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}
This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

    clmgmtLicenseNotEnforced

smi2:defval "true"
smi2:max-access "read-write"
smi2:oid "1.3.6.1.4.1.9.9.543.1.4.3"

container clmgmtLicenseActionTable {

    description
    "A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.
    1. install
    2. clear
    3. processPermissionTicket
    4. regenerateLastRehostTicket
    5. backup
    6. generateEULA

    Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.
    Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

    smi2:oid "1.3.6.1.4.1.9.9.543.1.1.2"

    list clmgmtLicenseActionEntry {
        key "clmgmtLicenseActionIndex"
        description
        "An entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

        1. CREATE-AND-GO method
           Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values
are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method
   Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtLicenseActionRowStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtLicenseActionRowStatus to destroy(6) when clmgmtLicenseActionState is pending(2).

The status of action execution can be known by querying clmgmtLicenseActionState. If the action is still in pending(2) or in inProgress(3) state, the management application need to check back again after few seconds. Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgmtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgmtLicenseActionResultTable.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license
   The following MIB objects need to be set for installing a license
   a. clmgmtLicenseActionTransferProtocol
   b. clmgmtLicenseServerAddressType
   c. clmgmtLicenseServerAddress
   d. clmgmtLicenseServerUsername
   e. clmgmtLicenseServerPassword
   f. clmgmtLicenseFile
   g. clmgmtLicenseStore
   h. clmgmtLicenseStopOnFailure
   i. clmgmtLicenseAcceptEULA
j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license
The following MIB objects need to be set for clearing a license
   a. clmgmtLicenseActionEntPhysicalIndex
   b. clmgmtLicenseActionLicenseIndex
   c. clmgmtLicenseStore
   d. clmgmtLicenseAction

3. Revoking a license
The following MIB objects need to be set for revoking a license
   a. clmgmtLicenseActionTransferProtocol
   b. clmgmtLicenseServerAddressType
   c. clmgmtLicenseServerAddress
   d. clmgmtLicenseServerUsername
   e. clmgmtLicenseServerPassword
   f. clmgmtLicensePermissionTicketFile
   g. clmgmtLicenseRehostTicketFile
   h. clmgmtLicenseStopOnFailure
   i. clmgmtLicenseAction

4. Regenerate last rehost ticket
The following MIB objects need to be set for regenerating last rehost ticket
   a. clmgmtLicenseActionTransferProtocol
   b. clmgmtLicenseServerAddressType
   c. clmgmtLicenseServerAddress
   d. clmgmtLicenseServerUsername
   e. clmgmtLicenseServerPassword
   f. clmgmtLicensePermissionTicketFile
   g. clmgmtLicenseRehostTicketFile
   h. clmgmtLicenseStopOnFailure
   i. clmgmtLicenseAction
5. Save all licenses to a backup storage
The following MIB objects need to be set for storing all licenses to a backup store
a. clmgmtLicenseActionEntPhysicalIndex
b. clmgmtLicenseActionTransferProtocol
c. clmgmtLicenseServerAddressType
d. clmgmtLicenseServerAddress
e. clmgmtLicenseServerUsername
f. clmgmtLicenseServerPassword
g. clmgmtLicenseBackupFile
h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.
The following MIB objects need to be set exporting required EULAs
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseEULAFile
h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.
   a. clmgmtLicenseServerAddressType
   b. clmgmtLicenseServerAddress
   c. clmgmtLicenseServerUsername
   d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset.

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
  "This object uniquely identifies a row in clmgmtLicenseActionTable. The management application should choose this value by reading clmgmtNextFreeLicenseActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not
continue and error will be returned. The management application should read the value of clmgmtNextFreeLicenseActionIndex again and retry with the new value for this object.


description
"This object represents the entPhysicalIndex of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples include stackable switches, devices with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device."

description
"This object represents the transfer protocol to be used when copying files as specified in the following objects."
1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system.


description
"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol
is not none(1) or local(2)."
smiv2: defval "unknown";
smiv2: max-access "read-write";
smiv2: oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}
leaf clmgmtLicenseServerAddress {
type inet-address: InetAddress;
description
"This object indicates the ip address of the server from
which the files must be read or written to if
clmgmtLicenseActionTransferProtocol is not none(1) or
local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not
allowed.

The format of this address depends on the value of the
clmgmtLicenseServerAddressType object";
smiv2: defval "";
smiv2: max-access "read-write";
smiv2: oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
leaf clmgmtLicenseServerUsername {
type snmp-framework: SnmpAdminString {
    length "0..96";
}
description
"This object indicates the remote user name for accessing
files via ftp, rcp, sftp or scp protocols. This object must
be set when the clmgmtLicenseActionTransferProtocol is
ftp(4), rcp(5), scp(7) or sftp(8). If
clmgmtLicenseActionTransferProtocol is rcp(5), the remote
username is sent as the server username in an rcp command
request sent by the system to a remote rcp server.";
smiv2: defval "";
smiv2: max-access "read-write";
smiv2: oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}
leaf clmgmtLicenseServerPassword {
type snmp-framework: SnmpAdminString {
    length "0..96";
}
description
"This object indicates the password used by ftp, sftp or
scp for copying a file to/from an ftp/sftp/scp server.
This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
  "This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

leaf clmgmtLicenseStore {
  type uint32;
  description
  "This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

leaf clmgmtLicenseActionLicenseIndex {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseIndexOrZero;
  description
  "This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex object in
clmgmtLicenseInfoEntry for license that is subject of this action.;
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
  "This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
  "This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
  "This object indicates the file where all the licenses in
the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

leaf clmgmtLicenseStopOnFailure {
    type boolean;
    description
    "This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

leaf clmgmtLicenseAction {
    type enumeration {
        enum "noOp" {
            value "1";
        }
        enum "install" {
            value "2";
        }
        enum "clear" {
            value "3";
        }
        enum "processPermissionTicket" {
            value "4";
        }
        enum "regenerateLastRehostTicket" {
            value "5";
        }
        enum "backup" {
            value "6";
        }
        enum "generateEULA" {
            value "7";
        }
    }
    description
    "This object indicates the the command/action to be executed.";
<table>
<thead>
<tr>
<th>Command</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>noOp(1)</td>
<td>No operation will be performed.</td>
</tr>
<tr>
<td>install(2)</td>
<td>Installs the license.</td>
</tr>
<tr>
<td>clear(3)</td>
<td>Clears the license.</td>
</tr>
<tr>
<td>processPermissionTicket(4)</td>
<td>Processes the permission ticket and generates and exports rehost ticket.</td>
</tr>
<tr>
<td>regenerateLastRehostTicket(5)</td>
<td>Generates and exports the last generated rehost ticket.</td>
</tr>
<tr>
<td>backup(6)</td>
<td>Backs up all the licenses installed currently onto a backup store.</td>
</tr>
<tr>
<td>generateEULA(7)</td>
<td>Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file.</td>
</tr>
</tbody>
</table>

leaf clmgmtLicenseActionState {
    type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseActionState;
    description
        "This object indicates the state of this license action.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

leaf clmgmtLicenseJobQPosition {
    type uint32;
    description
        "This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there
is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state.

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17"
```

leaf clmgmtLicenseActionFailCause {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseActionFailCause;
  description
  "This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18"
}

leaf clmgmtLicenseActionStorageType {
  type snmpv2-tc:StorageType;
  description
  "This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
  smiv2:defval "volatile"
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19"
}

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description
  "This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion"
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20"
}
leaf clmgmtLicenseAcceptEULA {
    type boolean;
    description
    "This object indicates whether the End User License Agreement
    needed for installing the licenses is accepted.

    true(1) - EULA is read and accepted
    false(2) - EULA is not accepted

    Management application should set this object to true(1) when
    installing licenses that need EULA acceptance.”;
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

leaf clmgmtLicenseEULAFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.”;
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}

container clmgmtLicenseActionResultTable {
    description
    "This table contains results of license action if the
    license action involves multiple licenses. Entries in this
    table are not created for actions where there is
    only license that is subject of the action. For
    example, if there are 3 licenses in a license file
    when executing license install action, 3 entries will
    be created in this table, one for each license.”;
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

    list clmgmtLicenseActionResultEntry {
        key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
        description

"An entry in clmgmtLicenseActionResultTable. Each entry
contains result of the action for a single license.
These entries are created immediately after action
execution when the action involves multiple licenses.
These entries get automatically deleted when the
 corresponding entry in clmgmtLicenseActionTable
is deleted."

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

leaf clmgmtLicenseActionIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
MIB:clmgmtLicenseActionTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseActionEntry/CISCO-LICENSE-
MGMT-MIB:clmgmtLicenseActionIndex";
  }
}

leaf clmgmtLicenseNumber {
  type uint32 {
    range "1..4294967295";
  }
  description
  "This object indicates the sequence number of this license
in the list of licenses on which the action is executed.
For example, if there are 3 licenses in a license file
when executing license install action, this object will
have values 1, 2 and 3 respectively as ordered in the
license file.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}

leaf clmgmtLicenseIndivActionState {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseActionState;
  description
  "This object indicates the state of action on this
individual license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseActionFailCause;
  description
  "This object indicates the reason for action failure on this
individual license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
container clmgmtLicenseStoreInfoTable {
  description
  "This table contains information about all the license
  stores allocated on the device."
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";
}

list clmgmtLicenseStoreInfoEntry {
  key "entPhysicalIndex clmgmtLicenseStoreIndex";
  description
  "An entry in clmgmtLicenseStoreInfoTable. Each entry
  contains information about a license store allocated
  on the device"
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";
}

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
               mib:entPhysicalIndex";
  }
}

leaf clmgmtLicenseStoreIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
  "This object uniquely identifies a license store within
  the device."
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

leaf clmgmtLicenseStoreName {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
  "This object indicates the name of the license store
  within the device. It is a file in device's local file
  system i.e., either on a local disk or flash or some
  other storage media. For example, the value of this
  object can be 'disk1:lic_store_1.txt' or
  'flash:lic_store_2.txt';
  smiv2:max-access "read-only";"
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
}

leaf clmgmtLicenseStoreTotalSize {
    type uint32;
    units "bytes";
    description
    "This object indicates the total number of bytes that are
    allocated to the license store."
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.3";
}

leaf clmgmtLicenseStoreSizeRemaining {
    type uint32;
    units "bytes";
    description
    "This object indicates the number of bytes still remaining
    to be used for new license installations in the license
    store."
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
}
}
}

container clmgmtLicenseDeviceInfoTable {
    description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist
    only for entities that support licensing. For example,
    if it is a stand alone device and supports licensing,
    then there will be only one entry in this table. If
    it is stackable switch then there will be multiple
    entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";
}

list clmgmtLicenseDeviceInfoEntry {
    key "entPhysicalIndex";
    description
    "An entry in clmgmtLicenseDeviceInfoTable. Each entry
    contains device level licensing information for a device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";
}

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
        mib:entPhysicalIndex";
    }
leaf clmgmtDefaultLicenseStore {
    type uint32 {
        range "1..4294967295";
    }
    description
        "This object indicates the clmgmtLicenseStoreIndex of
default store in the device. There will be only one
default license store per device. If no license store
is specified during license install, this default license
store will be used.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
}
}
}
}
}
}

container clmgmtLicenseInfoTable {
    description
        "This table contains information about all the licenses
installed on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

list clmgmtLicenseInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
    description
        "An entry in clmgmtLicenseInfoTable. Each entry contains
information about a license installed on the device. This
entry gets created when a license is installed successfully.
Management application can not create these entries directly, but
will do so indirectly by executing license install action.
Some of these entries may already exist that correspond to
demo licenses even before management application installs any
licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type uint32 {
            range "1..4294967295";
        }
    }
}
description
"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."
smiv2:max-access "not-accessible"
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1"
}

leaf clmgmtLicenseIndex {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseIndex;
  description
  "This object uniquely identifies a license within the device."
  smiv2:max-access "not-accessible"
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2"
}

leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString {
    length "0..128"
  }
  description
  "This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."
  smiv2:max-access "read-only"
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3"
}

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128"
  }
  description
  "This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'."
  smiv2:max-access "read-only"
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4"
}

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1"
    }
  }
}
enum "extension" {
    value "2";
}
enum "gracePeriod" {
    value "3";
}
enum "permanent" {
    value "4";
}
enum "paidSubscription" {
    value "5";
}
enum "evaluationSubscription" {
    value "6";
}
enum "extensionSubscription" {
    value "7";
}
enum "evalRightToUse" {
    value "8";
}
enum "rightToUse" {
    value "9";
}
enum "permanentRightToUse" {
    value "10";
}

description
"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1)               - demo(evaluation license) license.
extension(2)          - Extension(expiring) license.
gracePeriod(3)        - Grace period license.
permanent(4)          - permanent license, the license has no expiry date.
paidSubscription(5)   - Paid subscription licenses are the licenses
                        which are purchased by customers. These licenses have a start date and end date associated with them.
evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses
are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7) - Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to Use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) - Right To Use license right after it is configured and is valid for the lifetime of the product. This is a Right To Use license which is not in evaluation mode for a limited time.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}

leaf clmgmtLicenseCounted {
  type boolean;
  description
  "This object indicates whether the license is counted license.
  true(1) - counted license
  false(2) - uncounted license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}

leaf clmgmtLicenseValidityPeriod {
  type uint32;
  units "seconds";
  description
  "This object indicates the time period the license is valid for.
  This object is applicable only if clmgmtLicenseType is demo(1),
  or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will return 0 for other license types.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

leaf clmgmtLicenseValidityPeriodRemaining {
  type uint32;
}
units "seconds";
description
"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8"
}

leaf clmgmtLicenseExpiredPeriod {
type uint32;
units "seconds";
description
"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9"
}

leaf clmgmtLicenseMaxUsageCount {
type uint32;
description
"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10"
}

leaf clmgmtLicenseUsageCountRemaining {
type uint32;
description
"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11"
}

leaf clmgmtLicenseEULAStatus {
type boolean;
description
 "This object indicates whether the user accepted
 End User License Agreement for this license.

 true(1) - EULA accepted
 false(2) - EULA not accepted"
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
 type snmp-framework:SnmpAdminString {
   length "0..255";
 }
 description
 "This object represents the user modifiable comments
 about the license. This object is initially populated
 with comments from the license file."
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

leaf clmgmtLicenseStatus {
 type enumeration {
   enum "inactive" {
     value "1";
   }
   enum "notInUse" {
     value "2";
   }
   enum "inUse" {
     value "3";
   }
   enum "expiredInUse" {
     value "4";
   }
   enum "expiredNotInUse" {
     value "5";
   }
   enum "usageCountConsumed" {
     value "6";
   }
 }
 description
 "This object represents status of the license.

 inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and available for use.

inUse(3) - the license is being used (by a feature).

expiredInUse(4) - license is expired but still being held by the feature.

expiredNotInUse(5) - license is expired and not being held by any feature.

usageCountConsumed(6) - number of entities using this licenses has reached the allowed limit, no new entities are allowed to use this license.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";

}

leaf clmgmtLicenseStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the start date for a subscription license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}

leaf clmgmtLicenseEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the end date for a subscription license. This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
  type uint32;
  units "seconds";
  description
"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

smiv2:max-access "read-only"

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17"

}\}
}
}

container clmgmtLicensableFeatureTable {
    description
    "This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not be deleted. Management application can not create or delete entries from this table."

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4"

} clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex"

description
    "An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1"

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex"
    }
}

leaf clmgmtFeatureIndex {
    type uint32 {
        range "1..4294967295"
    }

description
    "This object uniquely identifies a licensable feature in the device."

    smiv2:max-access "not-accessible"

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1"
}

leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {

leaf clmgmtFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..32";
  }
  description
  "This object indicates the version of the licensable feature in the device. Examples of feature versions are: '1.0' or '2.0';"
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
  "This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

  The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

leaf clmgmtFeatureWhatIsCounted {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
  "This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number
of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string.”;
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

leaf clmgmtFeatureStartDate {
  type snmpv2-tc:DateAndTime;
  description
  "This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an octet string of length 0.”;
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;
  description
  "This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0.”;
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
  type uint32;
  units "seconds";
  description
  "This object indicates the license period used for the feature.”;
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}

container clmgmtDevCredExportActionTable {
  description

"A table for triggering device credentials export action. Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

list clmgmtDevCredExportActionEntry {
  key "clmgmtDevCredExportActionIndex";
  description
  "An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method
   Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method
   Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.
Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset.

leaf clmgmtDevCredExportActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description "This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

leaf clmgmtDevCredEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description "This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

  Note: This object need not be set if it is a stand alone device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

leaf clmgmtDevCredTransferProtocol {
  type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseTransferProtocol;
  description "This object indicates the transfer protocol to be used when copying files as specified in the following objects.

  1. clmgmtDevCredExportFile .";
leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object. This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

    All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

    The format of this address depends on the value of the clmgmtDevCredServerAddressType object.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";
leaf clmgmtDevCredServerPassword {
    type snmp-framework:SnmpAdminString {
        length "0..96";
    }
}

description
"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

leaf clmgmtDevCredExportFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
}

description
"This object represents file where device credentials needs to be exported to.
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

leaf clmgmtDevCredCommand {
    type enumeration {
        enum "noOp" {
            value "1";
        }
        enum "getDeviceCredentials" {
            value "2";
        }
    }
}

description
"This object indicates the the command to be executed.

<table>
<thead>
<tr>
<th>Command</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>noOp(1)</td>
<td>No operation will be performed.</td>
</tr>
<tr>
<td>getDeviceCredentials(2)</td>
<td>Exports device credentials&quot;;</td>
</tr>
</tbody>
</table>
leaf clmgmtDevCredCommandState {
    type CISCO-LICENSE-MGMT-MIB:ClmgmtLicenseActionState;
    description
    "This object indicates the state of the action that is
     executed as a result of setting clmgmtDevCredRowStatus
to active(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

leaf clmgmtDevCredCommandFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "unknownError" {
            value "2";
        }
        enum "transferProtocolNotSupported" {
            value "3";
        }
        enum "fileServerNotReachable" {
            value "4";
        }
        enum "unrecognizedEntPhysicalIndex" {
            value "5";
        }
        enum "invalidFile" {
            value "6";
        }
    }
    description
    "This object indicates the the reason for device
     credentials export operation failure.

    The value of this object is valid only when
    clmgmtDevCredCommandState is failed(6).

    none(1)         - action execution has not started yet.
    If the action is completed and the
    action is successful, then also
    none(1) is returned to indicate that
    there are no errors."
unknownError(2) - reason for failure is unknown, operation failed, no operation is performed.

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid.

invalidFile(6) - The target file specified is not valid.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

leaf clmgmtDevCredStorageType {
  type snmpv2-tc:StorageType;
  description "This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
  smiv2:defval "volatile";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
}

leaf clmgmtDevCredRowStatus {
  type snmpv2-tc:RowStatus;
  description "This object indicates the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtDevCredCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row.

  clmgmtDevCredExportFile is a mandatory object to be set when creating this entry."
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
}
notification clmgmtLicenseExpired {
  description "This notification is sent, when a feature license expires. This notification will be sent continuously"
every week even after the expiry to alert the management application.;
smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

container object-1 {
  leaf entPhysicalIndex {
    type leafref {
      path "entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
    }
  }
}

container object-2 {
  leaf entPhysicalIndex {
    type leafref {
      path "entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
    }
  }

  leaf clmgmtFeatureVersion {
type leafref {
}
}
}
}
}

notification clmgmtLicenseExpiryWarning {
    description "This notification is sent when a license is about to expire. This notification will go out multiple times. First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.2"
}

container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
        }
    }

    container object-2 {

    }

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
           mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-
            MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
            LICENSE-MGMT-MIB:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-
            MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
            LICENSE-MGMT-MIB:clmgmtFeatureVersion";
  }
}

container object-3 {
  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
             mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-
              MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
              LICENSE-MGMT-MIB:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-
              MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
              LICENSE-MGMT-MIB:clmgmtFeatureValidityPeriodRemaining";
    }
  }
}
notification clmgmtLicenseUsageCountExceeded {

description
"This notification is sent when clmgmtLicenseUsageCountRemaining
has reached clmgmtLicenseMaxUsageCount for a counting license."

smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

container object-1 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

mib:entPhysicalIndex";

}

}

leaf clmgmtLicenseStoreUsed {

type leafref {

path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-

MGMT-MIB:clmgmtLicenseStoreUsed";

}

}

leaf clmgmtLicenseIndex {

type leafref {

path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-

MGMT-MIB:clmgmtLicenseIndex";

}

}

leaf clmgmtLicenseFeatureName {

type leafref {

path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-

MGMT-MIB:clmgmtLicenseFeatureName";

}

}

container object-2 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

mib:entPhysicalIndex";

}

}
leaf clmgmtLicenseStoreUsed {
  type leafref {
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
  }
}

leaf clmgmtLicenseFeatureVersion {
  type leafref {
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "ENTITY-MIB:entPhysicalTable/entPhysicalEntry/entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
    }
  }
}
leaf clmgmtLicenseMaxUsageCount {
    type leafref {
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
        }
    }

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
        }
    }

    container object-5 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
            }
        }

    }
leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
            MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
            MGMT-MIB:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
            MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
            MGMT-MIB:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseComments {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
            MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
            MGMT-MIB:clmgmtLicenseComments";
  }
}

notification clmgmtLicenseUsageCountAboutToExceed {
  description
  "This notification is sent when clmgmtLicenseUsageCountRemaining
  has reached 80% of clmgmtLicenseMaxUsageCount for a counting
  license. This is a warning notification to the management
  application that very soon the maximum count will be reached
  and after that the device will not allow new entities to
  make use of this license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
                mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {

type leafref {
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseFeatureName";
    }
}

leaf clmgmtLicenseFeatureName {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseFeatureName";
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }
}
leaf clmgmtLicenseFeatureVersion {
    type leafref {
        path "Cisco-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/clmgmtLicenseInfoEntry/clmgmtLicenseFeatureVersion";
    }
}

container object-3 {
    leaf entPhysicalIndex {
        type leafref {
            path "entity-mib:entPhysicalTable/entPhysicalEntry/entPhysicalIndex";
        }
    }
    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "Cisco-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/clmgmtLicenseInfoEntry/clmgmtLicenseStoreUsed";
        }
    }
    leaf clmgmtLicenseIndex {
        type leafref {
            path "Cisco-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/clmgmtLicenseInfoEntry/clmgmtLicenseIndex";
        }
    }
    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "Cisco-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/clmgmtLicenseInfoEntry/clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {
    leaf entPhysicalIndex {
        type leafref {
        }
    }
}
leaf clmgmtLicenseStoreUsed {
  type leafref {
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseUsageCountRemaining {
  type leafref {
  }
}

container object-5 {

  leaf entPhysicalIndex {
    type leafref {
      path "/ENTITY-MIB/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
    }
  }
}

leaf clmgmtFeatureWhatIsCounted {

}
type leafref {
}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
        }
    }

    notification clmgmtLicenseInstalled {
        description
            "This notification is sent when a license is installed successfully.";
        smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";
    }
}
container object-1 {

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
    mib:entPhysicalIndex";
  }
}

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
    MGMT-MIB:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
    MGMT-MIB:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseFeatureName {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
    MGMT-MIB:clmgmtLicenseFeatureName";
  }
}
}

container object-2 {

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
    mib:entPhysicalIndex";
  }
}

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
    MGMT-MIB:clmgmtLicenseStoreUsed";
  }
}
leaf clmgmtLicenseStoreUsed {
    type leafref {
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
    }
}

container object-3 {
    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseType {
        type leafref {
path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseType";

leaf entPhysicalIndex {
    type leafref {
        path "entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseComments {
    type leafref {
    }
}

notification clmgmtLicenseCleared {
    description
    "This notification is sent when a license is cleared successfully."
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";
}
container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureName {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseFeatureName";
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseStoreUsed";
    }
}
leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseType {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }
}
leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity- 
        mib:entPhysicalIndex";
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
        MGMT-MIB:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
        MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureName {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
        MGMT-MIB:clmgmtLicenseFeatureName";
    }
}

carrier container object-2 {
    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
            mib:entPhysicalIndex";
        }
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-
        MGMT-MIB:clmgmtLicenseStoreUsed";
    }
}
leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseType {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
        }
    }
}
MGMT-MIB:clmgmtLicenseType;

container object-4 {

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity- 
mib:entPhysicalIndex";
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseInfoEntry/CISCO-LICENSE-MGMT-MIB:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseComments {
    type leafref {
    }
}
/notification clmgmtLicenseEULAAccepted {
    description
    "This notification is sent when a user accepts End User
     License Agreement (EULA) for a license."
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

    container object-1 {


leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
    mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
    LICENSE-MGMT-MIB:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
    MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
    LICENSE-MGMT-MIB:clmgmtFeatureName";
  }
}

container object-2 {
  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
      mib:entPhysicalIndex";
    }
  }
  leaf clmgmtFeatureIndex {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
      MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureIndex";
    }
  }
  leaf clmgmtFeatureVersion {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
      MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureVersion";
    }
  }
}
notification clmgmtLicenseNotEnforced {
  description
  "This notification is sent when a license does not
  exist for a feature, but the feature is a mandatory
  feature and it should run. This notification will be
  sent out periodically to indicate that there is no
  license installed for this feature and it needs to
  be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";
}

container object-1 {
  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
      mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureName";
    }
  }
}

container object-2 {
  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
      mib:entPhysicalIndex";
    }
  }
}
leaf clmgmtFeatureIndex {
  type leafref {
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
  }
}

notification clmgmtLicenseSubscriptionExpiryWarning {
  description
  "This notification is sent when a subscription license of a
  feature is about to expire. This notification will be sent as
  per the following schedule:
  Once a week for the last eight weeks
  Once a day for the last week
  Once a hour for the last day";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

container object-1 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
    }
  }
}
leaf clmgmtFeatureEndDate {
  type leafref {
  }
}

notification clmgmtLicenseSubscriptionExtExpiryWarning {
  description
  "This notification is sent when the subscription license end
date of a feature is reached but extension period is left. This
notification will be sent once a day after the license end date
is reached."
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";
}

container object-1 {
  leaf entPhysicalIndex {
    type leafref {
      path "entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
  }
}

leaf clmgmtFeatureName {
  type leafref {
  }
}

container object-2 {
  leaf entPhysicalIndex {

type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
    mib:entPhysicalIndex";
}
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
        LICENSE-MGMT-MIB:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
        MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
        LICENSE-MGMT-MIB:clmgmtFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
            mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
            MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
            LICENSE-MGMT-MIB:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-
            MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
            LICENSE-MGMT-MIB:clmgmtFeatureEndDate";
        }
    }
}
notification clmgmtLicenseSubscriptionExpired {
    description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";
}

    container object-1 {
        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
                    mib:entPhysicalIndex";
            }
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
                    LICENSE-MGMT-MIB:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
                    LICENSE-MGMT-MIB:clmgmtFeatureName";
        }
    }

    container object-2 {
        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
                    mib:entPhysicalIndex";
            }
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
                    LICENSE-MGMT-MIB:clmgmtFeatureIndex";
        }
    }
LICENSE-MGMT-MIB:clmgmtFeatureIndex;

leaf clmgmtFeatureVersion {
type leafref {
}
}

container object-3 {

  leaf entPhysicalIndex {
type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
}
}

  leaf clmgmtFeatureIndex {
type leafref {
}
}

  leaf clmgmtFeatureEndDate {
type leafref {
}
}

notification clmgmtLicenseEvalRTUTransitionWarning {
description
"This notification is sent when Evaluation to Right to use (RTU)
license transition is about to happen. The first notification
will be sent 10 days before the transition and second
notification will be sent 5 days before the transition.";
smi-v2:oid "1.3.6.1.4.1.9.9.543.0.13";
}
container object-1 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

leaf clmgmtFeatureIndex {
  type leafref {
  }
}

leaf clmgmtFeatureName {
  type leafref {
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
  }

leaf clmgmtFeatureIndex {
  type leafref {
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
  }
}
container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
      mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/CISCO-LICENSE-MGMT-MIB:CISCO-LICENSE-MGMT-MIB/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureTable/CISCO-LICENSE-MGMT-MIB:clmgmtLicensableFeatureEntry/CISCO-
      LICENSE-MGMT-MIB:clmgmtFeatureValidityPeriodRemaining";
    }
  }

notification clmgmtLicenseEvalRTUTransition {
  description
  "This notification is sent, when a feature license transitions
  from a evaluation to a Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
        mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {

    }

  }


...
Given the numerous product features that can be included in Secure Threat Services, it is necessary to track the specifics for the various 3rd party licenses that will be used. This document shall be the single source of truth for all relevant 3rd party licenses.

At a minimum, each entry should include:

* A brief description of the license (what it is used for, etc.)
* License or contract owner
* The relevant terms of the license in the context of Secure Threat Services (cost structure, etc)
* Key dates (contract/license expiration, renewal dates, etc.)
* Applicable limits
* Additional notes

1. Quick list of licenses:

* Vineyard/Sandvine/Procera
* ...

2. License details:

* Vineyard/Sandvine/Procera
  ** Description: NAVL app detectors
  ** Owner: PM / AppID team (Costas Kleopa)
  ** Relevant terms: Limit of 5 products per current license agreement
  ** Key dates: N/A
  ** Limits: TBD (see Notes)
  ** Notes: Mike Dorsey is currently looking into what constitutes a product per the terms of the contract. Depending on whether Secure Threat Services itself is considered a product vs Secure Threat Services on a particular platform, it may be necessary to acquire additional licenses.

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</thead>
<tbody>
<tr>
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<td>IETF BCP 78</td>
<td><a href="http://trustee.ietf.org/license-info/IETF-TLP-4.htm">http://trustee.ietf.org/license-info/IETF-TLP-4.htm</a></td>
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------- IETF MIBs license ------
Legal Provisions Relating to IETF Documents

Effective Date: December 28, 2009

1. Background

The IETF Trust was formed on December 15, 2005, for, among other things, the purpose of acquiring, holding, maintaining and licensing certain existing and future intellectual property used in connection with the Internet standards process and its administration, for the advancement of science and technology associated with the Internet and related technology. Accordingly, pursuant to RFC 5378, Contributors grant the IETF Trust certain licenses with respect to their IETF Contributions. In RFC 5377, the IETF Community has provided the IETF Trust with guidance regarding licenses that the IETF Trust should grant to others with respect to such IETF Contributions and IETF Documents. These Legal Provisions describe the rights and licenses that the IETF Trust grants to others with respect to such IETF Contributions and IETF Documents; as well as certain restrictions, limitations and notices relating to IETF Documents. These Legal Provisions also apply to other document streams that have requested that the IETF Trust act as licensing administrator, as described in Section 8 below. Capitalized terms used in these Legal Provisions that are not otherwise defined have the meanings set forth in RFC 5378.

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module cisco-smart-license {
    /* This is the Cisco Smart Licensing common YANG model.
       This model must be common across all Cisco products that
       support smart licensing. */

    namespace "http://cisco.com/ns/yang/cisco-smart-license";

    prefix cisco-smart-license;

    import ietf-yang-types {
        prefix yang;
    }
    import ietf-inet-types {
        prefix inet;
    }
    include "cisco-smart-license-errors";

    organization
        "Cisco Systems, Inc.";
    contact
        "Cisco Systems, Inc.
        Customer Service
        Postal: 170 W Tasman Drive
        San Jose, CA 95134
        Tel: +1 1800 553-NETS
        E-mail: cs-yang@cisco.com";
    description
        "Smart licensing configuration, RPC, notification and operational data.
        Copyright (c) 2016-2017 by Cisco Systems, Inc.
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    revision 2017-10-11 {
        description
            "Initial Revision to allow register/de-register, enable/disable,
             get register status, receive notifications, get
             license usage and other state information.";
        reference "https://software.cisco.com/";
    }
}

/*******************************************************************************/
/* typedefs */
/* We have specified a value for each enum. This is very helpfull in */
/* making it easier to ensure a consistant and proper implementation of */
/* this YANG model across all Cisco products and operating systems. */
typedef fail-message-type {
  type string {
    length "0..255";
  }
  description
  "If an operation failed then this the message that
  can be displayed for the user. This is not a parsable string.";
}

typedef notif-register-failure-enum {
  type enumeration {
    enum general-failure {
      value 0;
      description
      "General failure.";
    }
    enum already-registered-failure {
      value 1;
      description
      "This smart licensing instance is already registered.";
    }
    enum de-register-failure {
      value 2;
      description
      "The de-register failed because this instance is not registered.";
    }
  }
  description
  "Registration failure reasons. In all cases
  notif-failure-data-group.message will contain a more
detailed failure message.";
}

typedef registration-state-enum {
  type enumeration {
    enum reg-state-not-registered {
      value 0;
      description
      "This smart licensing instance is not registered.";
    }
    enum reg-state-complete {
      value 1;
      description
      "Registration was successful and this smart licensing
      instance is registered.";
    }
  }
  description
  "Registration state types";
enum reg-state-in-progress {
    value 2;
    description
        "Registration is in progress.";
}

enum reg-state-retry {
    value 3;
    description
        "The initial registration attempt failed but
        a retry is in progress.";
}

enum reg-state-failed {
    value 4;
    description
        "Registration failed.";
}

description
    "The smart licensing registration state.";
}

/* authorization state types */
typedef authorization-state-enum {
    type enumeration {
        enum auth-state-none {
            value 0;
            description
                "No licenses are in use so there is no authorization
                state to report.";
        }
        enum auth-state-eval {
            value 1;
            description
                "Evaluation period is in use and is counting down.";
        }
        enum auth-state-eval-expired {
            value 2;
            description
                "Evaluation period in use but it has expired.";
        }
        enum auth-state-authorized {
            value 3;
            description
                "All license usage is authorized and within terms
                of the customer's contract.";
        }
        enum auth-state-authorized-reservation {

"
value 4;
description
"All license usage is authorized because a reservation authorization code is installed."
}
enum auth-state-out-of-compliance {
value 5;
description
"License usage is out of compliance with the terms of the contract. Either too many licenses are in use or licenses that were not purchased are in use."
}
enum auth-state-authorization-expired {
value 6;
description
"The authorization period has expired because this product instance has not communicated with the SSM or satellite in over 90 days."
}
}
description
"The smart licensing authorization state."
}

/* typedef for utility reporting types */
typedef utility-reporting-type-enum {
type enumeration {
enum utility-reporting-type-none {
value 0;
description
"The system is not reporting utility usage data."
}
enum utility-reporting-type-subscription {
value 1;
description
"The system is reporting utility usage data because it has received subscription information from either the SSM or satellite."
}
enum utility-reporting-type-certificate {
value 2;
description
"The system is reporting utility usage data because it has received a utility certificate from a Third Party Billing Platform."
}
}
description
"What has triggered the system to start reporting utility usage."

/* typedef for transport types */
typedef transport-type-enum {
    type enumeration {
        enum transport-type-callhome {
            value 0;
            description
            "Smart Licensing is using callhome for communications.";
        }
        enum transport-type-smart {
            value 1;
            description
            "Smart licensing is using the smart transport for communications.";
        }
    }
    description
    "The type of transport in use by smart licensing.";
}

/* typedef for license enforcement modes */
typedef enforcement-mode-enum {
    type enumeration {
        enum enforcement-waiting {
            value 0;
            description
            "The initial state after an entitlement request while we are waiting
            the Authorization request response. In this mode the device will
            have established communications with Cisco and successfully
            registered with the Cisco Licensing cloud.";
        }
        enum enforcement-in-compliance {
            value 1;
            description
            "Cisco Smart Software Manager (CSSM) has responded that
            the entitlement requested is in compliance.";
        }
        enum enforcement-out-of-compliance {
            value 2;
            description
            "Cisco Smart Software Manager (CSSM) has responded that
            the entitlement requested is out of compliance.
            either too many licenses /entitlements are in use or the license
            has not been purchased";
        }
        enum enforcement-overage {
value 3;
description
"more licenses are in use than were purchased but the customer
is still within the terms of their contract";
}
enum enforcement-evaluation {
  value 4;
description
  "The evaluation period is in use.
  It will remain in use until the following
two messages have been received by the product from the
Cisco Smart Software Manager (CSSM):
  Successful response to a registration request,
successful response to an entitlement authorization request";
}
enum enforcement-evaluation-expired {
  value 5;
description
  "The evaluation period has expired";
}
enum enforcement-authorization-expired {
  value 6;
description
  "Authorization period has expired. This will occur if the product
has not been able to communicate with Cisco or a satellite
for an extended period of time, usually 90 days.";
}
enum enforcement-reservation-in-compliance {
  value 7;
description
  "The entitlement requested is in compliance because
  a reservation authorization code is installed and the product
  is in Permanent License Reservation mode.";
}
enum enforcement-invalid-tag {
  value 8;
description
  "The entitlement tag is invalid.
The CSSM does not recognize the entitlement tag
because it is not in the database. This usually only occurs
during testing.";
}
enum enforcement-disabled {
  value 9;
description
  "Smart licensing has been disabled. The feature using this license
should be disabled.";
}
description
   "For an entitlement tag (license) that is in use this enumeration
tells us how the license is being enforced."
};

/*******************************************************************/
/* groupings */
grouping registration-fail-info {
    description
        "Failure info for a registration failure.";
    leaf fail-time {
        type yang:date-and-time;
        description
            "Time the registration failed."
    }
    leaf fail-message {
        type fail-message-type;
        description
            "Failure message that can be displayed for the user.
             This is not a parsable message."
    }
}
/* registration state */
grouping registration-state {
    description
        "The state of the registration for this product instance.";
    leaf registration-state {
        type registration-state-enum;
        description
            "The current registration state."
    }
    container registration-in-progress {
        when "./registration-state = 'reg-state-in-progress'";
        description
            "Registration is in progress."
        leaf start-time {
            type yang:date-and-time;
            description
                "Time the registration started."
        }
    }
    container registration-failed {
        when "./registration-state = 'reg-state-failed'";
        description
            "Registration is failed."
    }
}
"Registration failed.";
uses registration-fail-info;
}

container registration-retry {
    when ".../registration-state = 'reg-state-retry';
    description
         "Registration failed and doing a retry.";
    leaf retry-next-time {
        type yang:date-and-time;
        description
             "Time the registration will be retried.";
    }
    uses registration-fail-info;
}

container registration-complete {
    when ".../registration-state = 'reg-state-complete';
    description
         "Registration success.";
    leaf complete-time {
        type yang:date-and-time;
        description
             "Time the registration was successful.";
    }
    leaf last-renew-time {
        type yang:date-and-time;
        description
             "Time the last registration renewal occurred.
             If empty then no renewal has occurred.";
    }
    leaf next-renew-time {
        type yang:date-and-time;
        description
             "Time the registration will be automatically renewed.";
    }
    leaf expire-time {
        type yang:date-and-time;
        description
             "Time the registration will expire if it is not renewed.";
    }
    leaf last-renew-success {
        type boolean;
        description
             "Was the last renewal attempt successful.";
    }
    leaf fail-message {
        type fail-message-type;
description
"If the last renewal failed then this is a failure message that
can be displayed for the user.
This is not a parsable string.
Only present if the last renewal failed";
}
leaf smart-account {
type string {
    length "1..255";
}
description
"The smart account name for this registration.";
}
leaf virtual-account {
type string {
    length "1..255";
}
description
"The virtual account name for this registration.";
}
leaf export-control-allowed {
type boolean;
description
"Is the device allowed to enable export controlled features.";
}
*/ The smart license UDI */
grouping udi {
description
"The Smart Licensing UDI definition.
A UDI will contain one or more of the fields defined.
While the pid and sn fields are most commonly used
different product types will use different fields. This UDI
will be unique for each product instance that is installed.";
leaf pid {
type string {
    length "1..255";
}
description
"The Product Identifier. Always combined with sn.";
}
leaf sn {
type string {
    length "1..255";
}
description
    "The system serial number. Always combined with pid.";
}
leaf vid {
    type string {
        length "1..255";
    }
    description
        "The version identifier. Usually combined with pid & sn.";
}
leaf uuid {
    type yang:uuid;
    description
        "A 32 byte hex value generated by the system.
        This will be in proper UUID format 8-4-4-4-12. Often used by VMs
        or other systems that do not have a hardware identifier.";
}
leaf suvi {
    type string {
        length "1..255";
    }
    description
        "Free form virtual identifier often used by software
        only devices like software routers or VMs.";
}
leaf host-identifier {
    type string {
        length "1..255";
    }
    description
        "Host identifier available on some systems.
        Typically 8 hex digits.";
}
leaf mac-address {
    type yang:mac-address;
    description
        "The MAC address of the system. This is usually only used if there
        is nothing else available to be used as an identifier.";
}

/* additional authorization state information */
grouping authorization-info {
    description
        "Additional authorization state information used by some of
        the authorization states.";
    leaf last-comm-status-success {
        type boolean;
    }
}
description
"Last communication was successful or failed.";
}
leaf fail-message {
  type fail-message-type;
  description
  "Failure message if the last communications attempt failed.
   This can be displayed for the user. It is not a parsable string.";
}
leaf last-comm-time {
  type yang:date-and-time;
  description
  "Time the last communication attempt happened.";
}
leaf next-comm-time {
  type yang:date-and-time;
  description
  "The next time communications will be attempted to the back end.
   This will be zero if the initial communication has not completed.";
}
leaf comm-deadline-time {
  type yang:date-and-time;
  description
  "If there are no communications between now and this time
   smart licensing will enter the authorization expired state.
   This may be zero indicating there is no deadline.";
}
/* expiration period counter */
grouping evaluation-time-left {
  description
  "Number of seconds of license usage until the evaluation
   period expires.";
  leaf seconds-left {
    type uint64;
    description
    "Number of seconds of license usage until the evaluation
     period expires. Note that this not a hard date and time because
     if no licenses are in use the evaluation period stops
     counting down.";
  }
}
/* authorization state */
grouping authorization-state {
  description
  "The license authorization state.";
}
leaf authorization-state {
  type authorization-state-enum;
  description
   "The current authorization state.";
}

container authorization-none {
  when "/../authorization-state = 'auth-state-none'";
  description
   "No licenses in use. This empty container is not needed but is
    a place holder to show there is no data for this state.";
}

container authorization-eval {
  when "/../authorization-state = 'auth-state-eval'";
  description
   "Evaluation period is in use and counting down.
    The evaluation period only counts down when licenses are
    in use.";
  uses evaluation-time-left;
}

container authorization-eval-expired {
  when "/../authorization-state = 'auth-state-eval-expired'";
  description
   "Evaluation period is in use but has expired.";
  leaf expire-time {
    type yang:date-and-time;
    description
     "Time the evaluation period expired.";
  }
}

container authorization-authorized {
  when "/../authorization-state = 'auth-state-authorized'";
  description
   "All license usage is authorized and within terms of the contract.";
  uses authorization-info;
}

container authorization-authorized-reservation {
  when "/../authorization-state = 'auth-state-authorized-reservation'";
  description
   "All license usage is authorized because a
    reservation authorization code is installed.";
  leaf reservation-time {
    type yang:date-and-time;
    description
  }
}
"Time the reservation occurred."
}

container authorization-out-of-compliance {
  when "/../*authorization-state = 'auth-state-out-of-compliance'";
  description
  "License usage is out of compliance with the terms of the
   contract because more licenses are in use than were purchased."
  uses authorization-info;
  leaf ooc-time {
    type yang:date-and-time;
    description
    "Time the product instance entered the out of compliance state.";
  }
}

container authorization-authorization-expired {
  when "/../*authorization-state = 'auth-state-authorization-expired'";
  description
  "The authorization period has expired because the product
   instance has not communicated with the SSM or satellite in
   over 90 days.";
  uses authorization-info;
}

"/* Customer information */
grouping customer-info {
  description
  "Customer name and address information."
  leaf id {
    type string {
      length 1..250;
    }
    description
    "The cisco issued customer id which will be included
     in the utility usage (RUM) report."
  }
  leaf name {
    type string {
      length "1..250";
    }
    description
    "The customer company name which will be included
     in the utility usage (RUM) report."
  }
  leaf street {

type string {
    length "1..250";
}
description
    "The customer company street address which will be included in the utility usage (RUM) report."
}
leaf city {
    type string {
        length "1..250";
    }
description
    "The customer company city which will be included in the utility usage (RUM) report."
}
leaf state {
    type string {
        length "1..250";
    }
description
    "The customer company state which will be included in the utility usage (RUM) report."
    reference
    "ISO3166 standard for state codes."
}
leaf country {
    type string {
        length "1..250";
    }
description
    "The customer company country which will be included in the utility usage (RUM) report."
    reference
    "ISO3166 standard for country codes."
}
leaf postal-code {
    type string {
        length 1..250;
    }
description
    "The customer location specific postal code which will be included in the utility usage (RUM) report."
}
/* utility state information */
grouping utility-state {
    description
"State of utility reporting in smart licensing."

leaf enabled {
  type boolean;
  description
  "Utility reporting is enabled. The system still
  needs a utility certificate registration or a subscription
  to begin reporting actual utility data."
}

leaf reporting {
  type utility-reporting-type-enum;
  description
  "Is the system reporting utility data. If so then what triggered
  it to start reporting. If this is utility-reporting-none then all
  of the times below will be zero."
}

container reporting-times {
  when ".reporting != 'utility-reporting-none'"
  description
  "If the product instance is reporting utility data this will
  contain various timing information about that reporting."
  leaf last-report-time {
    type yang:date-and-time;
    description
    "Time the last report was sent."
  }
  leaf last-report-success {
    type boolean;
    description
    "Was the last report successfully sent?"
  }
  leaf fail-message {
    type fail-message-type;
    description
    "Failure message if the last report send failed."
  }
  leaf next-report-time {
    type yang:date-and-time;
    description
    "Time the next report is scheduled to be sent."
  }
}

container customer-info {
  when ".reporting != 'utility-reporting-none'"
  description
  "Customer address information that will be sent
  in the utility usage reports."
  uses customer-info;
}
grouping transport-state {
    description
    "Transport settings. Smart licensing uses the transport to
    send messages to the CSSM, satellite or
    Third Party Billing Platform.";
    leaf transport-type {
        type transport-type-enum;
        description
        "Type of communications transport smart licensing is using.";
    }
    container url-settings {
        when "./transport-type = 'transport-type-smart'";
        description
        "URLs in use if the transport type is smart.";
        leaf url-registration {
            type inet:uri;
            description
            "The URL used for registration, authorization and any
            other messages not related to utility.";
        }
        leaf url-utility {
            type inet:uri;
            description
            "The URL used for utility reporting. url-utility and
            url-registration may be the same or different. If a satellite
            is in use then they will probably be the same.";
        }
    }
}

/* privacy info for state and config */
grouping privacy-info {
    description
    "Will smart licensing send the host name in any outgoing messages.";
    leaf hostname {
        type boolean;
        description
        "If true then the hostname will not be sent in
        any messages.";
    }
    leaf version {
        type boolean;
        description
        "If true then the smart licensing version will not be sent in
        any messages.";
    }
}
/* evaluation period state */
grouping eval-period-state {
    description "State of the evaluation period. In use or not and time left.";
    leaf eval-in-use {
        type boolean;
        description "Is the evaluation period currently in use and counting down.";
    }
    leaf eval-expired {
        type boolean;
        description "Has the evaluation period expired.";
    }
    container eval-period-left {
        when ".../eval-expired = 'false'";
        description "If the evaluation period is not expired this is the number
of seconds left in the period.";
        leaf time-left {
            type uint32;
            description "Number of seconds of license usage until the evaluation
period expires.";
        }
    }
    container eval-expire-time {
        when ".../eval-expired = 'true'";
        description "If the evaluation period has expired then this is the
time of the expiration.";
        leaf expire-time {
            type yang:date-and-time;
            description "Date and time the evaluation period expired.";
        }
    }
}

/* license (entitlement tag) usage */
grouping license-usage {
    description "State of usage for a single entitlement tag (license).";
    leaf entitlement-tag {
        type string;
    }
}
description
"The ISO 19770 entitlement tag used to define this license."
}
leaf short-name {
  type string;
  description
  "The human readable license name from the entitlement tag.";
}
leaf license-name {
  type string;
  description
  "The license name that can be seen in the CSSM portal or on
  the satellite.
  This is only available after the product has registered.";
}
leaf description {
  type string;
  description
  "The long description of this license.
  This is only available after the product has registered.";
}
leaf count {
  type uint32;
  description
  "The in-use count of this license. Note that licensing only reports
  usage for licenses that are in use (count of 1 or greater).";
}
leaf enforcement-mode {
  type enforcement-mode-enum;
  description
  "The current enforcement mode of this license.";
}
leaf post-paid {
  type boolean;
  description
  "If true then this entitlement is being reported in a post paid mode
  with utility usage reports. Otherwise it will be reported in
  the regular prepaid mode.";
}
leaf subscription-id {
  type string;
  description
  "If this entitlement tag is being reported in the post paid
  utility usage mode and there is a subscription id in the customer's
  virtual account this will be that subscription id.";
}
failure data information for notifications *

/* failure data information for notifications */
grupping notif-failure-data-group {
  description
  "Describes why a register operation failed.";
  leaf reason {
    type notif-register-failure-enum;
    description
    "Why did the operation fail.";
  }
  leaf message {
    type fail-message-type;
    description
    "A message describing the details of the failure.";
  }
}

****************************************************************** */

/* RPC */

rpc register-id-token {
  description
  "Register with an ID token.
  This will begin the registration process. Since the registration
  process will take somewhere between seconds and hours you must get the
  registration-success or registration-fail notifications
  or check the registration status in smart-license:state
  to know the status of the registration.";
  input {
    leaf id-token {
      type string {
        length "1..255";
      }
      description
      "The ID token used to register.";
    }
    leaf force {
      type boolean;
      default "false";
      description
      "Force the registration if set.";
    }
  }
  output {
    leaf return-code {
      type error-enum;
      description
      "The return code.
      If smart licensing is not enabled (status:enabled)
then the error will be error-enum:notenabled.
On success the return code will be
error-enum:registrationinprogress.
}
}
}

type error-enum

description
"De-register. This will immediately de-register the device.";
output {
leaf return-code {
  type error-enum;
description
  "The return code for the de-register process.";
}
}
}

type error-enum

description
"Under normal operations smart licensing will automatically renew
the ID certificates used for registration. This command can
be used if the customer wants to initiate a manual
registration renewal.";
output {
leaf return-code {
  type error-enum;
description
  "The return code.";
}
}
}

type error-enum

description
"Under normal operations smart licensing will automatically renew
the license authorization every 30 days. This command can
be used if the customer wants to initiate a manual
renewal.";
output {
leaf return-code {
  type error-enum;
description
  "The return code.";
}
}
}
notifications

notification ready {
    description
        "Smart Licensing on the product instance has initialized
        and is ready to accept the enable command.\";
}

notification enabled {
    description
        "Smart Licensing on the product instance has been enabled.\";
}

notification registration-fail {
    description
        "Registration with Cisco failed.\";
    uses notif-failure-data-group;
}

notification enforcement-mode {
    description
        "This indicates how licenses are currently being enforced on the
        product instance.\";
    leaf mode {
        type authorization-state-enum;
        description
            "The current enforcement mode for the licenses on the product instance.\";
    }
}

notification registration-success {
    description
        "Registration with Cisco was successful.\";
}

notification registration-expired {
    description
        "The registration period has expired because the product instance
        has not communicated with the SSM in a very long time.\";
    uses notif-failure-data-group;
}

notification registration-renew-success {
    description
        "The registration renewal with Cisco was successful.\";
}

notification registration-renew-fail {
    description
"The registration renewal with Cisco failed.");
uses notif-failure-data-group;
}
notification authorization-renew-success{
  description
  "The authorization renewal was successful.
  Every 30 days the agent will automatically send the list of entitlements in use
  (even if they have not changed or the list is empty)
  to the SSM. The SSM will send back a status of Authorized or out of compliance.";
}
notification authorization-renew-fail {
  description
  "The authorization renewal failed.
  Every 30 days the agent will automatically send the list of entitlements in use
  (even if they have not changed or the list is empty)
  to the SSM. The SSM will send back a status of Authorized or out of compliance.";
  uses notif-failure-data-group;
}
notification communications-fail{
  description
  "Communications with the SSM have failed.";
  uses notif-failure-data-group;
}
notification communications-restored {
  description
  "Communications with the SSM have been restored.";
}
notification registration-out-of-range {
  description
  "The registration period time in the ID Certificate is out of the valid range after the system clock changed. This means the current time is either before the start date or after the expired date. Smart Licensing will allow a one hour grace period for the system clock to be changed back into the validity period of the certificate before it removes the certificate and de-registers the product.";
}
notification evaluation-expiration-warning {
  description
  "The evaluation period will expire soon. This notification will be sent prior to expiration at the following intervals: 60 days, 30 days, 21 days, 14 days, 7 days, every day in the last week, every hour for the last day.";
uses evaluation-time-left;
}

notification evaluation-expired {
  description
    "The evaluation period has expired. This notification will be
    sent at the time of expiration and every hour after expiration
    until all licenses features are turned off or the device is
    registered.";
  leaf expire-time {
    type yang:date-and-time;
    description
      "The date and time the evaluation period expired.";
  }
}

notification registration-expiration-warning {
  description
    "The registration period has expired. The normal registration
    period is one year and will be automatically renewed every
    six months. If the device fails to renew the registration
    because of continued communications failures for an additional
    six months the registration period will expire and the device
    will de-register.";
  leaf expire-time {
    type yang:date-and-time;
    description
      "The date and time the registration period expired.";
  }
}

notification de-register-success {
  description
    "The smart licensing instance has been de-registered.
    This could be the result of a user action or an expired registration.";
}

notification de-register-fail {
  description
    "de-registration has failed on the SSM or there was a communications
    failure so the SSM has not removed product instance from its database.
    Locally on the product instance all registration information has
    been removed.";
  uses notif-failure-data-group;
}

notification utility-expired {
  description
    "The certificate used for utility registration with a third party
    authenticator has expired. Probably because of continuous communications
    failures...";

failures. The product instance will de-register.
); uses notif-failure-data-group;
}
notification utility-renewal-fail {
    description
    "The renewal of the certificate used for utility registration with a
    third party authenticator has failed. Possibly because of
    a communications failure. The product instance will try the renewal
    later.";
    uses notif-failure-data-group;
}
notification utility-renewal-success {
    description
    "The renewal of the certificate used for utility registration with a
    third party authenticator was successful.";
}
notification utility-RUM-fail {
    description
    "Failed to sent a RUM (utility usage) report because of a
    communications error. the product instance will continue to
    attempting sending all reports until successful.";
    uses notif-failure-data-group;
}
notification utility-reporting-started {
    description
    "The utility billing feature is enabled and is now sending
    utility usage reports.";
}
notification utility-reporting-stopped {
    description
    "The utility billing feature has been disabled and is no longer sending
    utility usage reports.";
}

/* Licensing container to hold both config and state */
container licensing {

/****************************
/* configuration */
container config {
    description
    "Smart licensing configuration.";
    leaf enable {
        type boolean;
        description
        "Enable/disable smart licensing. If state:always-enabled is true then
Smart Licensing is always enabled and config:enable will be silently ignored;

leaf custom-id {
type string;
description "A free form ID set by the customer which will be included in the utility usage (RUM) report and in the message header."
}

container privacy {
uses privacy-info;
description "Controls whether or not some information is sent in messages to the CSSM or satellite."
}

container utility {
description "Utility settings."
leaf utility-enable {
type boolean;
description "Indicates the customer's intent to start reporting utility usage information. This alone does not enable utility reporting. Either subscription information will be automatically downloaded from the SSM or a utility certificate will be loaded if the system registers with a Third Party Billing Platform."
}

container customer-info {
description "Customer address information that will be included in the utility usage reports."
uses customer-info;
}
}

container transport {
description "Transport layer settings."
leaf transport-type {
type transport-type-enum;
description "The transport type. If transport-type is set to transport-type-callhome then any additional transport settings must be done from the callhome CLI. If the transport-type is set to transport-type-smart additional settings are available below."
}

container transport-smart {
when "../transport-type = 'transport-type-smart'":
description
"Settings for the smart transport."
choice url-setting {
description
"Set the URL(s) used for communications to the SSM,
satellite or Third Party Billing Platform.");
case set-default {
leaf url-default {
type boolean;
description
"Tell smart licensing to set the default URLs for both
url-registration and url-utility that point to
the Cisco SSM.");
}
}
case set-urls {
container urls {
description
"The URLS used for registration and utility reporting.
These should be set if the product instance will
communicate with a satellite or Third Party
Billing Platform.");
leaf url-registration {
type inet:uri;
description
"Set the URL used for registration, authorization and
anything else not related to utility usage reporting.");
}
leaf url-utility {
type inet:uri;
description
"Set the URL to be used for sending utility usage
reports. This should be the same as url-registration
if you are using a satellite.");
}
}
}
}

/***************************
/* Operational data */
container state {
config false;
description
"Smart licensing state."
leaf always-enabled {
    type boolean;
    description
    "Smart Licensing is always enabled. The smart-enabled leaf below will always be true. The config:enable setting above will be silently ignored by Smart licensing."
}
leaf smart-enabled {
    type boolean;
    description
    "Is smart licensing enabled. If always-enabled above is true then smart licensing is always enabled and can not be disabled."
}
leaf version {
    type string {
        length "1..255";
    }
    description
    "The smart licensing version in use."
}
container state-info {
    /* This state-info is only available if */
    /* ../smart-enabled = true */
    when "./.smart-enabled = 'true'";
    description
    "Smart licensing state information. This is only valid if smart-enabled = true."
    container registration {
        description
        "State of license registration."
        uses registration-state;
    }
    container authorization {
        description
        "State of license authorization."
        uses authorization-state;
    }
    container utility {
        description
        "State of utility reporting."
        uses utility-state;
    }
    leaf custom-id {
        type string;
        description
        "Smart licensing state."
    }
}
"The custom ID set by the customer that will be included in the utility usage (RUM) report and in the message header";

} container transport {
    description
    "State of the transport.";
    uses transport-state;
}

} container privacy {
    description
    "State of the privacy settings.";
    uses privacy-info;
}

} container evaluation {
    description
    "State of the evaluation period.";
    uses eval-period-state;
}

} container udi {
    description
    "UDI of the system.";
    uses udi;
}

} list usage {
    key "entitlement-tag";
    uses license-usage;
    description
    "List of license (entitlement tag) usage information. This only contains the information for licenses that are in use.";
}

} description
    "Container to hold config and state.";
}

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@startuml

title SSE Connector Enrollment Token Generation via Smart License

participant "Smart License"
paticipant "Smart Agent"
paticipant "SSE Cloud"
paticipant "CP Connector"
paticipant "Configuration Point"

"Configuration Point" -> "Smart Agent": configures & enables the smart agent
"Configuration Point" -> "Smart Agent": sends a request for a Smart Agent Instance to be registered with SL
 note right: A valid token from Smart License account is required here
"Smart Agent" -> "Smart License" : requests to be registered
"Smart License" -> "Smart Agent": registers the Smart Agent instance
"Configuration Point" -> "Smart Agent" : requests for SSE third party key
"Smart Agent" -> "Smart License" : relays the third party request
"Smart License" -> "Smart Agent" : provides SSE's third party key
"Smart Agent" -> "Configuration Point" : relays the third party key response
"Configuration Point" -> "CP Connector" : relays the third party key to the connector and requests the connector to be enrolled
"CP Connector" -> "SSE Cloud" : requests a JWT token in exchange for the third party key
"SSE Cloud" -> "CP Connector" : provides JWT token for enrollment
"CP Connector" -> "SSE Cloud" : requests to be registered with JWT token
"SSE Cloud" -> "CP Connector" : registers connector
@enduml

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FROM tomcat:jdk8-openjdk-slim

RUN apt-get update && apt-get install -y wget

WORKDIR /usr/local/tomcat/webapps

RUN wget https://engci-maven-master.cisco.com/artifactory/slimshady-artifacts/tools/smartagent.war && chmod a+r smartagent.war

CMD ["catalina.sh", "run"]

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module CISCO-IMAGE-LICENSE-MGMT-MIB {

prefix CISCO-IMAGE-LICENSE-MGMT-MIB;

import ENTITY-MIB {
   prefix "entity-mib";
}

import SNMP-FRAMEWORK-MIB {
   prefix "snmp-framework";
}

import ietf-yang-smiv2 {
   prefix "smiv2";
}

organization "Cisco Systems Inc.";

contact "Cisco Systems"
description
"The MIB module for managing the running image level
of a Cisco device. Cisco's licensing mechanism provides
flexibility to run a device on a chosen image level.
This mechanism is referred to as image level licensing.
Image level licensing leverages the universal image
based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software
packages is loaded on to the device. At boot time, the
device determines the highest level of license and brings
up the appropriate software features or subsystems.
The user can configure the image level with which the
device has to boot. The system will verify whether the
appropriate license is available for the configured image
level. The image level for the next boot will be determined
based on the availability of the license. The following
scenarios explains some use-cases of image level licensing:

Scenario 1:
- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the
  base advsecurity license.
- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the
  next reboot. After reboot the device will run
  advipservicesk9 features.

Scenario 2:
- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity
  license on the device.
- This device will run all features that are part of the
  base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA)
before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.

revision 2007-10-16 {
    description
    "Initial version of this MIB module."
}

typedef BootImageLevel {
    type binary {
        length "0..255";
    }
    description
    "This textual convention is used to define the image level.

    If the device is running at advipservices image level, then the boot image level will be 'advipservices'."
}

typedef LicenseNameList {
    type binary {
        length "0..255";
    }
    description
    "This textual convention is used to define the list of license names. If multiple licenses are present then this string will contain all the licenses seperated by the ',' character."
If the license required to run a device at
advipservices image level is advipservices and
advsecurity, then the license name list will be
'advipservices,advsecurity'.
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
  config false;

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description
        "This object when set to TRUE means that the user has
        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license."
      smiv2:defval "false";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
    }
  }

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

    leaf cilmImageLevelChangedNotif {
      type boolean;
      description
        "Specify whether or not a notification should be
        generated on the detection of change in next boot
        image level.

        If set to TRUE, cilmBootImageLevelChanged notification
        will be generated. It is the responsibility of the
        management entity to ensure that the SNMP administrative
        model is configured in such a way as to allow the
        notification to be delivered."
      reference
        "See also RFC3413 for explanation that notifications
        are under the ultimate control of the MIB module in
        this document."
      smiv2:defval "false";
    }
  }
}
container cilmBootImageLevelTable {
    description
    "A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";
}

list cilmBootImageLevelEntry {
    key "entPhysicalIndex cilmModuleName";
    description
    "An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

    - Current image level.
    - Configured image level for the next boot.
    - Actual image level for the next boot.
    - License store index for the current license.
    - License index of the current license.
    - License store index for the next boot license.
    - License index of the next boot license."
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";
}

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
}

leaf cilmModuleName {
    type snmp-framework:SnmpAdminString;
    description
    "This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality. For example, in a wireless image there can be two modules - a base image module and a wireless module.";
}
leaf cilmCurrentImageLevel {
  type CISCO-IMAGE-LICENSE-MGMT-MIB:BootImageLevel;
  description
  "This object indicates the current image level that
  the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}

leaf cilmConfiguredBootImageLevel {
  type CISCO-IMAGE-LICENSE-MGMT-MIB:BootImageLevel;
  description
  "This object indicates the configured image level
  of the module for the next boot.
  
  Note: The configured next boot image level may not
  be the actual next boot image level. The actual next
  boot image level is denoted by cilmNextBootImageLevel
  which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}

leaf cilmNextBootImageLevel {
  type CISCO-IMAGE-LICENSE-MGMT-MIB:BootImageLevel;
  description
  "This object indicates the next boot image level. The
  next boot image level can be different from configured
  level. The next boot image level is determined based
  on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
  "This object indicates the license store index where the
  currently used license is stored. This object has the same
  value as clmgmtLicenseStoreIndex object and uniquely
  identifies an entry in clmgmtLicenseStoreInfoTable in
  CISCO-LICENSE-MGMT-MIB.
  
  Note: The license store index can be '0' if no license is
leaf cilmCurrentLicenseIndex {
    type uint32;
    description
        "This object indicates the license index of the currently used
license. This object has the same value as clmgmtLicenseIndex and
uniquely identifies an entry in clmgmtLicenseInfoTable in
CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is
installed and device is running base image.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}

leaf cilmNextBootLicenseStoreIndex {
    type uint32;
    description
        "This object indicates the license store index where the
next boot license is stored. This object has the same
value as clmgmtLicenseStoreIndex object and uniquely
identifies an entry in clmgmtLicenseStoreInfoTable in
CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is
installed for the next boot.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}

leaf cilmNextBootLicenseIndex {
    type uint32;
    description
        "This object indicates the license index of the next boot
license. This object has the same value as clmgmtLicenseIndex
and uniquely identifies an entry in clmgmtLicenseInfoTable in
CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is
installed for the next boot.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
container cilmImageLevelToLicenseMapTable {
    description
    "This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2"
}

list cilmImageLevelToLicenseMapEntry {
    key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
    description
    "An entry in the table containing the following information.
    - The image levels at which the modules can be run.
    - The license required to run a module at a particular image level.
    - The priority of the license."
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1"
}

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
        }
    }

    leaf cilmModuleName {
        type leafref {
        }
    }

    leaf cilmImageLicenseMapIndex {
        type uint32;
        description
        "This is a running index used to identify an entry of this table."
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1"
    }

    leaf cilmImageLicenseImageLevel {
        type string;
        description
        "This is the priority of the license."
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2"
    }
}
type CISCO-IMAGE-LICENSE-MGMT-MIB:BootImageLevel;

description
"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

leaf cilmImageLicenseName {

type CISCO-IMAGE-LICENSE-MGMT-MIB:LicenseNameList;

description
"This object indicates the list of licenses needed to
be installed for the module to run at the image level
mentioned by cilmImageLicenseImageLevel object of this
entry."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

leaf cilmImageLicensePriority {

type uint32 {
    range "1..255";
}

description
"This object indicates the priority of the image level
mentioned by cilmImageLicenseImageLevel object of this
entry. The image level with the highest priority license
will be considered as the default level in the absence of
next boot image level configuration. For example if there
are three licenses l1, l2 and l3 in the ascending order of
priority, then by default l1 will be the level at which the
module will be running. If the next boot level is configured
then the configuration will override the priority. The highest
priority license supports a feature set which is a super set of
all other licenses.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}

notification cilmBootImageLevelChanged {

description
"This notification is triggered when next boot image level
is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively.;

smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

container object-1 {

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
}

leaf cilmModuleName {
    type leafref {
    }
}

leaf cilmCurrentImageLevel {
    type leafref {
    }
}

container object-2 {

leaf entPhysicalIndex {
    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
    }
}

leaf cilmModuleName {
    type leafref {
    }
}

leaf cilmCurrentImageLevel {
    type leafref {
    }
}
leaf cilmConfiguredBootImageLevel {
  type leafref {
  }
}

smiv2:alias "ciscoImageLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

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submodule Cisco-IOS-XE-license {
  belongs-to Cisco-IOS-XE-native {
    prefix ios;
  }
}

import Cisco-IOS-XE-features {
  prefix ios-features;
}

organization
  "Cisco Systems, Inc.";

contact
  "Cisco Systems, Inc.
  Customer Service
Postal: 170 W Tasman Drive
San Jose, CA 95134
Tel: +1 1800 553-NETS
E-mail: cs-yang@cisco.com";

description
  "Cisco XE Native License Yang model.
  Copyright (c) 2016 by Cisco Systems, Inc.
  All rights reserved."

// =========================================================================
// REVISION
// =========================================================================
revision 2018-11-07 {
  description
  "Cleanup spelling errors in description statements";
revision 2018-10-23 {
    description
    "Added license boot suite command. Command not applicable to CSR";
}
revision 2017-12-01 {
    description
    "Add licenses boot level addon for cat3k";
}
revision 2017-10-18 {
    description
    "Add licenses boot level on switch and smart licensing";
}
revision 2017-05-25 {
    description
    "Add licenses ax and security";
}
revision 2017-02-07 {
    description
    "Initial revision";
}

grouping config-license-grouping {
    container license {
        description
        "Configure license features";
        // license udi
        container udi {
            leaf pid {
                type string;
            }
            leaf sn {
                type string;
            }
        }
        //license feature
        container feature {
            description
            "License features";
            leaf name {
                type string;
            }
            container port {
                description
                "Enable Ports for IM";
                leaf bulk {
                    description
                    "Bulk configuration for ports";
                }
            }
        }
    }
}

"Enable Bulk port licenses";
type empty;
}
leaf onegig {
    description
    "Enable 1G port bundles";
type uint8 {
        range "1..2";
    }
}
leaf b-6xonegig {
    description
    "Enable 6x1G port bundles";
type uint8 {
        range "1..2";
    }
}
leaf tengig {
    description
    "Enable 10G port bundles";
type uint8 {
        range "1..2";
    }
}
// license accept
container accept {
    leaf end {
        type empty;
    }
    leaf user {
        type empty;
    }
    leaf agreement {
        type empty;
    }
}
// license boot
container boot {
    description
    "license boot config commands";
    container level {
        description
        "which level to boot";
        choice license-choice {
            case ipbase-case {
    
Open Source Used In kASA v1.1 10378
container ipbase{
  description "ipbase level";
  presence "true";
  leaf switch {
    description "Switch license information";
    type uint8;
  }
}
}
case ipbasek9-case {
  container ipbasek9 {
    description "License Level IPBASEK9";
    presence "true";
    leaf addon {
      description "select add-on to include";
      type enumeration {
        enum "dna-advantage";
        enum "dna-essentials";
      }
    }
  }
}
}
case ipservices-case {
  container ipservices {
    description "ipservices level";
    presence "true";
    leaf switch {
      description "Switch license information";
      type empty;
    }
  }
}
}
case ipservicesk9-case {
  container ipservicesk9 {
    description "ipservicesk9 level";
    presence "true";
    leaf addon {
      description "select add-on to include";
      type enumeration {
        enum "dna-advantage";
enum "dna-essentials";
}
}
}
}
case lanbase-case {
    container lanbase {
        description
        "lanbase level";
        presence "true";
        leaf switch {
            description
            "Switch license information";
            type empty;
        }
    }
}
}
case lanbasek9-case {
    container lanbasek9 {
        description
        "License Level LANBASEK9";
        presence "true";
        leaf addon {
            description
            "select add-on to include";
            type enumeration {
                enum "dna-essentials";
            }
        }
    }
}
}
case lite-case {
    container lite {
        description
        "lite level";
        presence "true";
        leaf switch {
            description
            "Switch license information";
            type empty;
        }
    }
}
}
case metroaggrservices-case {
    container metroaggrservices {
        description
        "metroaggrservices level";
        presence "true";
    }
}
leaf switch {
  description
  "Switch license information";
  type empty;
}
}
case metroipservices-case {
  leaf metroipservices {
    description
    "Metroipservices License Level";
    type empty;
  }
}
case metroservices-case {
  leaf metroservices {
    description
    "Metroservices License Level";
    type empty;
  }
}
case advancedmetroipaccess-case {
  leaf advancedmetroipaccess {
    description
    "Advanced Metro IP Access License Level";
    type empty;
  }
}
case metroaccess-case {
  leaf metroaccess {
    description
    "Metro Access License Level";
    type empty;
  }
}
case metroipaccess-case {
  leaf metroipaccess {
    description
    "Metro IP Access License Level";
    type empty;
  }
}
case entservices-case {
  leaf entservices {
    description
    "Entservices License Level";
    type empty;
  }
}
case adventerprise-case {
    leaf adventerprise {
        description
            "Adventerprise License Level";
        type empty;
    }
}
case appx-case {
    leaf appx {
        description
            "Appx License Level";
        type empty;
    }
}
case appxk9-case {
    leaf appxk9 {
        description
            "Appxk9 License Level";
        type empty;
    }
}
case ax-case {
    leaf ax {
        description
            "ax(ipb+sec+appx) License Level";
        type empty;
    }
}
case security-case {
    leaf security {
        description
            "Security License Level";
        type empty;
    }
}
case securityk9-case {
    leaf securityk9 {
        description
            "Securityk9 License Level";
        type empty;
    }
}
case uck9-case {
    container uck9 {
        description
            "Uck9 License Level";
        presence "true";
    }
}
leaf disable {
  type empty;
}

}

} case network-advantage-case {
  container network-advantage {
    description
      "License Level Network-Advantage";
    presence true;
    leaf addon {
      description
        "select add-on to include";
      type enumeration {
        enum "dna-advantage";
        enum "dna-essentials";
      }
    }
  }
}
}

} case network-essentials-case {
  container network-essentials {
    description
      "License Level Network-Essentials";
    presence true;
    leaf addon {
      description
        "select add-on to include";
      type enumeration {
        enum "dna-essentials";
      }
    }
  }
}
}

} case AdvUCSuiteK9-case {
  leaf AdvUCSuiteK9 {
    description
      "AdvUCSuiteK9 License Level";
    type empty;
  }
}

} case FoundationSuiteK9-case {
  leaf FoundationSuiteK9 {
    description
      "FoundationSuiteK9 License Level";
    type empty;
  }
}
//license boot suite
container suite {
    description "License suite to boot";
    if-feature ios-features:license-suite-command;

    leaf suite-name {
        description "License Suite name";
        type enumeration {
            enum "AdvUCSuiteK9";
            enum "FoundationSuiteK9";
        }
    }
}

//license boot module
container boot-module {
    leaf module {
        type enumeration {
            enum "c2900";
        }
    }
    container technology-package {
        leaf securityk9 {
            type empty;
        }
        leaf uck9 {
            type empty;
        }
        leaf datak9 {
            type empty;
        }
    }
    container smart {
        description "Smart licensing";
        leaf customer-id {
            description "Customer defined id";
            type string;
        }
        leaf enable {
            description"
"Enable Smart licensing";
  type empty;
}
leaf transport-type {
  type enumeration {
    enum "callhome";
    enum "smart";
  }
  description
    "The transport type. If transport-type is set to
callhome then any additional transport settings must
be done from the callhome CLI.
If the transport-type is set to smart, additional
settings are available below."
}
container privacy {
  leaf hostname {
    type empty;
  }
  leaf version {
    type empty;
  }
}
  container utility {
    description
      "Enable or disable usage reporting on the device";
    leaf enable {
      description "Enable or disable usage reporting";
      type empty;
    }
  }
  container customer-info {
    leaf city {
      description "Customer defined city";
      type string;
    }
    leaf country {
      description "Customer defined country";
      type string;
    }
    leaf id {
      description "Customer defined id";
      type string;
    }
    leaf name {
      description "Customer defined name";
      type string;
    }
  }
  leaf postalcode {

description "Customer defined postal code";
type string;
}
leaf state {
description "Customer defined state";
type string;
}
leaf street {
description "Customer defined street";
type string;
}
}
}
}
}
container url {
description
"Specify the Smart Transport primary and the Utility URL";
choice url-setting {
description
"Specify the URL(s) used for communications to the SSM,
satellite or Third Party Billing Platform.";
case set-default {
leaf default {
type empty;
description
"Enable the default URLs for both
url-registration and url-utility that point to
the Cisco SSM.";
}
}
case set-urls {
leaf name {
type string;
description
"Specify the URL used for registration, authorization and
anything else not related to utility usage reporting.";
}
leaf utility {
type string;
description
"Specify the URL to be used for sending utility usage
reports. This should be the same as url-registration
if you are using a satellite.";
}
}
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submodule cisco-smart-license-errors {
    /* This is the smart licensing YANG model error codes */

    belongs-to "cisco-smart-license" {
        prefix "cisco-smart-license";
    }

    organization "Cisco Systems, Inc.";

    contact
        "Cisco Systems, Inc.  
        Customer Service  
        Postal: 170 W Tasman Drive  
        San Jose, CA 95134  
        Tel: +1 1800 553-NETS  
        E-mail: cs-yang@cisco.com";

    description
        "Smart licensing error codes.

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        All rights reserved."

    revision 2017-10-11 {
        /* this initial error code typedef is used for the initial
        * Smart licensing YANG model. */
        description "Initial Revision of the error codes";
        reference "https://software.cisco.com/";
/* typedef for smart licensing error codes returned by RPC functions. We have specified a value for each enum. This is very helpful in making it easier to ensure a consistent and proper implementation of this YANG model across all Cisco products and operating systems. */

typedef error-enum {
  type enumeration {
    enum success {
      value 0;
      description "Success";
    }
    enum malloc {
      value 1;
      description "Malloc Error";
    }
    enum nullpointer {
      value 2;
      description "Null pointer Error";
    }
    enum error3 {
      value 3;
      description "deprecated DO NOT remove";
    }
    enum error4 {
      value 4;
      description "deprecated DO NOT remove";
    }
    enum error5 {
      value 5;
      description "deprecated DO NOT remove";
    }
    enum BadInputParams {
      value 6;
      description "Bad input parameter";
    }
    enum error7 {
      value 7;
      description "deprecated DO NOT remove";
    }
    enum badhandle {
      value 8;
      description "Bad handle";
    }
    enum notfound {
      value 9;
      description "The requested item was not found";
    }
  }
}
enum notsupported {
    value 10;
    description "The requested operation is not supported";
}

enum alreadyinit {
    value 11;
    description "Init failed because the agent is already initialized";
}

enum notinit {
    value 12;
    description "API failed because the agent is not initialized";
}

enum smfailtocreate {
    value 13;
    description "State machine creation failed";
}

enum smfailtorun {
    value 14;
    description "State machine not running";
}

enum smfailtoinit {
    value 15;
    description "State machine failed to init";
}

enum smfailtodeestroy {
    value 16;
    description "State machine failed to destroy";
}

enum msgparse {
    value 17;
    description "message parsing error";
}

enum msgbuild {
    value 18;
    description "message building error";
}

enum notenabled {
    value 19;
    description "Smart Agent not enabled";
}

enum invalidrequest {
    value 20;
    description "Smart Agent request invalid";
}

enum init {
    value 21;
    description "General initialization error. We call a number of
system routines to
initialize system resources and we can't translate their error
codes to Smart Agent error codes. The log should have a detailed
description of the error.”;

enum failtosetstate {
    value 22;
    description "Smart Agent Fail to set state";
}
enum unsupportedresponse {
    value 23;
    description "Unsupported response type";
}
enum invalidresponse {
    value 24;
    description "Invalid response type";
}
enum storagefailtostore {
    value 25;
    description "Smart Agent Trusted Storage failed to store";
}
enum storagefailtoretrieve {
    value 26;
    description "Smart Agent Trusted Storage failed to retrieve";
}
enum nullccoidtoken {
    value 27;
    description "Null CCOId and IdToken";
}
enum matchidentifier {
    value 28;
    description "Product Instance identifier failed to match";
}
enum matchvendor {
    value 29;
    description "Vendor string failed to match";
}
enum matchnonce {
    value 30;
    description "nonce failed to match";
}
enum commdisabled {
    value 31;
    description "communication channel error. Comm layer (call home) is disabled";
}
enum commsend {
    value 32;
    description "Call Home message send error. probably a timeout so we
will retry the send. any other error from the comm send should
be a permanent failure;

enum commresponse {
    value 33;
    description "Call Home message send response error";
}
enum communkown {
    value 34;
    description "Call Home unknown error";
}
enum smpostnotallow {
    value 35;
    description "State machine Operation not permitted";
}
enum reqmsgmissingmandatoryfield {
    value 36;
    description "Missing mandatory field in request message";
}
enum responsefailed {
    value 37;
    description "We received a failure status in a response message.
The log will contain a error message";
}
enum pinotinit {
    value 38;
    description "PI not initialized";
}
enum alreadyenabled {
    value 39;
    description "The agent cannot be enabled more than once";
}
enum alreadyregistered {
    value 40;
    description "The agent is already registered";
}
enum certinvalid {
    value 41;
    description "The certificate is invalid";
}
enum certexpired {
    value 42;
    description "The certificate has expired";
}
enum notregistered {
    value 43;
    description "The agent is not registered";
}
enum csrGenerationFailed {
    value 44;
    description "The CSR generation failed ";
}

enum verifySignatureFailed {
    value 45;
    description "Signature Verification failed ";
}

enum generateSignatureFailed {
    value 46;
    description "Signature Generation failed ";
}

enum signCertificateValidationFailed {
    value 47;
    description "Signing Certificate Verification failed ";
}

enum nodeCertificateValidationFailed {
    value 48;
    description "Node Certificate Verification failed ";
}

enum parseCertificateFailed {
    value 49;
    description "Certificate Parsing failed ";
}

enum cryptoRootCAImportFailed {
    value 50;
    description "Root Certificate Import failed ";
}

enum tagInvalid {
    value 51;
    description "The tag is invalid ";
}

enum standby {
    value 52;
    description "Smart agent is running on a standby RP ";
}

enum registrationInProgress {
    value 53;
    description "Smart agent id token registration is in progress";
}

enum commRetry {
    value 54;
    description "Call Home is not ready because it is in restart ipc";
}

enum authRenewInProgress {
    value 55;
    description "Smart agent authorization renew is in progress";
}
enum idcertrenewinprogress {
    value 56;
    description "Smart agent id certificate renew is in progress";
}

enum noudichange {
    value 57;
    description "Udi List Has Not been changed ";
}

enum callhomeserviceoff {
    value 58;
    description "Call home service cannot be turned on. ";
}

enum msgexecinprogress {
    value 59;
    description "message execution already in progress";
}

enum msgexecinproglocked {
    value 60;
    description "message execution in progress flag is locked";
}

enum certmatchessubsetudis {
    value 61;
    description "The ID cert only matches some of the system Udi's";
}

enum storagegroupchangeincomplete {
    value 62;
    description "A Storage group has not all been changed";
}

enum storagemgmtnotinit {
    value 63;
    description "Storage Management is not Init";
}

enum tspathnotchanged {
    value 64;
    description "TS System Path list is not changed ";
}

enum cryptoinitnotcompleted {
    value 65;
    description "Crypto Initialization is not completed";
}

enum notinunidentified {
    value 66;
    description "The agent is not in unidentified state ";
}

enum platformpathinvalid {
    value 67;
    description "The platform provided path is invalid ";
}
enum platformudiinvalid {
    value 68;
    description "The platform provided UDI is invalid ";
}
enum storageobjfailtocreate {
    value 69;
    description "failed to create Trusted Store object ";
}
enum storageobjfailtoerase {
    value 70;
    description "failed to erase trusted store object ";
}
enum storageobjdoesnotexist {
    value 71;
    description "trusted storage object/file does not exist";
}
enum messageeventexceedspeer {
    value 72 ;
    description "The message event is beyond the peer ";
}
enum codevalidationfailed {
    value 73;
    description "Validation of the authorization key failed.
    It probably does not match the UDI. The device will go to
    the unidentified state (not registered)";
}
enum reserved {
    value 74;
    description "operation not supported because the agent is running in
    permanent License reservation mode";
}
enum noreservationinprogress {
    value 75;
    description "No license reservation is in progress ";
}
enum noauthorizationinstalled {
    value 76;
    description "No authorization code instaled in device ";
}
/** *
enum reservationmismatch {
    value 77;
    description "The reservation authorization code does not match the
    reservation request code";
}
enum notreservationmode {
    value 78;
    description "not in license reservation mode ";
/**     */
enum reservationerror {
    value 79;
    description " General reservation error. This is used with the API
    functions that are called by the CLI. the API will return a
    very specific displayString that describes the error. ";
}
enum sysmgrinit {
    value 80;
    description "Sysmgr Init Failed ";
}
enum alreadyexists {
    value 81;
    description "Generic error for something already existing ";
}
enum listinsertfailed {
    value 82;
    description "Error in object insert to xos list ";
}
enum sessionmgmtnotinit {
    value 83;
    description "Session management not initialized";
}
enum listinitfailed {
    value 84;
    description "Error Creating Linked List";
}
enum listbusy {
    value 85;
    description "List in use";
}
enum noclients {
    value 86;
    description "No Connected Clients ";
}
enum ipc {
    value 87;
    description "Generic IPC layer error ";
}
enum ipcopen {
    value 88;
    description "The IPC socket open error ";
}
enum ipcinit {
    value 89;
    description "The IPC Initialization error ";
}
enum ipcconnect {
    value 90;
    description "The IPC Connection error ";
}
enum ipcevents {
    value 91;
    description "The IPC Server Event error ";
}
enum ipcmgmt {
    value 92;
    description "The IPC Management error ";
}
enum ipcsend {
    value 93;
    description "The IPC Send error ";
}
enum ipcreceive {
    value 94;
    description "The IPC Receive error ";
}
enum ipctimeout {
    value 95;
    description "The IPC Receive error ";
}
enum enqueuefailed {
    value 96;
    description "Failed to enqueue a message to the IPC Queue";
}
enum dequeuefailed {
    value 97;
    description "Failed to dequeue a message from the IPC queue";
}
enum shuttingdown {
    value 98;
    description "Fail because we are about to shutdown and we need to stop processing any more messages or responses";
}
enum couldnotvalidatetrustchain {
    value 99;
    description "Could not validate Trust Chain";
}
enum reservationalreadyinstalled {
    value 100;
    description "The reservation authorization code is already installed ";
}
enum reservationinstallparsefail {
    value 101;
    description "Failed to parse reservation authorization code ";
}
enum base64encoding {
    value 102;
    description "Base64 encoding failed ";
}
enum base64decoding {
    value 103;
    description "Base64 decoding failed ";
}
enum invalidsoftwareidtag {
    value 104;
    description "Failed to find UUID inside software id tag ";
}
enum certificatemismatch {
    value 105;
    description "Development certificates are being used with Production 
    Root certificate ";
}
enum noreservation {
    value 106;
    description "No License Reservation ";
}
enum agentunreachable {
    value 107;
    description "the agent Daemon is unreachable ";
}
enum ignoreevent {
    value 108;
    description "the agent ignores event ";
}
enum b58overflow {
    value 109;
    description "Base58 overflow, number too large. ";
}
enum b58decode {
    value 110;
    description "Base58 decode error. ";
}
enum b58badlen {
    value 111;
    description "Bad base58 length. ";
}
enum b58invdigit {
    value 112;
    description "Invalid base58 digit. ";
}
enum b58decodeoverflow {
    value 113;
}
enum reservationversionoutofbound {
    value 114;
    description "Reservation version out of bound ";
}

enum base58encode {
    value 115;
    description "General Base58 encoding error ";
}

enum duplicatedentry {
    value 116;
    description "General error code for adding item that already exists.
Used in App HA setup when adding an HA peer device info that is already added ";
}

enum missingentry {
    value 117;
    description "General error code for trying to remove item that do not exist. Used in App HA setup when removing an HA peer device info that does not exist";
}

enum badpeerinfoformat {
    value 118;
    description "The given peer info contain incorrect data format ";
}

enum badapplicationhaattributedataset {
    value 119;
    description "The given handle attribute list contains incomplete application HA attributes";
}

enum reservationinprogress {
    value 120;
    description "license reservation is in progress ";
}

enum xdmcreatehandle {
    value 121;
    description "The xos_dm_create() failure causes this error code to be return ";
}

enum versionmismatchinentitlementrsp {
    value 122;
    description "Version in entitlement response message does not match with the one already saved from last completed response message. We need to send entitlement request again with proper version and data";
}

enum harolenotsupported {
    value 123;
description "Given valid HA Role is not supported by this operation.
For Application HA valid roles are Active or Standby."
}

enum apphainvalidcharacter {
    value 124;
    description "Application HA attribute contains invalid character.
Character set supported is alphanumeric."
}

enum apphaaddpeerfromsamedevice {
    value 125;
    description "The peer info given is from the same device."
}

enum apphaappduplicatedinstance {
    value 126;
    description "When setting Application HA Attribute, a different
handle with exactly
same tag, app ha name, app ha id exists in the agent."
}

enum versionmismatchinregresponse {
    value 127;
    description "Backend server does not support AppHA enabled message
version. So
registration response (from backend) received with status set as
FAILED or VERSION_TOO_HIGH."
}

enum conversionnnoch {
    value 128;
    description
"Migration function was called but there are no i
call backs registered ";
}

enum conversionnotallowed {
    value 129;
    description
"Migration was not enabled with the
MIGRATION_ALLOWED property ";
}

enum conversioninprogress {
    value 130;
    description "Migration is in progress ";
}

enum conversionalreadystarted {
    value 131;
    description "Migration has already been started ";
}

enum conversionnotenabled {
    value 132;
    description "Migration is not enabled ";
enum versionconversionnotsupported {
    value 133;
    description "The backend server this device is connected to does not support conversion";
}
enum noconversioninprogress {
    value 134;
    description "No conversion in progress";
}
enum cryptoversionmismatch {
    value 135;
    description "Loaded OpenSSL version is not the same as used for development";
}
enum conversionstoppedpartially {
    value 136;
    description "Some Smart Licensing Conversion jobs stopped successfully";
}
enum utilityenabled {
    value 137;
    description "Operation is not supported because Utility management is enabled";
}
enum utilitynotenabled {
    value 138;
    description "Utility is not enabled";
}
enum transportnotavailable {
    value 139;
    description "Transport layer not available";
}
enum fqdn {
    value 140;
    description "Unable to get FQDN";
}
enum thirdparty {
    value 141;
    description "The current transport type does not support this feature";
}
enum transporttype {
    value 142;
    description
"The transport type needed is not configured";

enum max {
    description "max error code";
}

description "Smart License error codes returned by
    Smart Licensing RPC calls";

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 lib/libgss/g_canon_name.c
 lib/libgss/g_compare_name.c
```
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.1255 x-sync v0.0.0-20190911185100-cd5d95a43a6e

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1.1256 hdrhistogram v0.0.0-20161010025455-3a0bb77429bd

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1.1257 oklog-ulid v1.3.1

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1.1261 grpc v1.34.0

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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
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  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
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  jar/io/netty/handler/codec/compression/Crc32.java
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jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallProvider.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
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jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallProvider.java
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jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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/**
 * A decoder that splits the received \{ByteBuf\}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * \{@link LengthFieldBasedFrameDecoder\} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * \<h3\>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is \<tt\>12 (0x0C)</tt\> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
  * combination.
  * <pre>
  * <b>lengthFieldOffset</b>   = <b>0</b>
  * <b>lengthFieldLength</b>   = <b>2</b>
  * lengthAdjustment    = 0
  * initialBytesToStrip = 0 (= do not strip header)
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * |  0x000C | "HELLO, WORLD" |      |  0x000C | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+
  * </pre>

* Because we can get the length of the content by calling
  * [@link ByteBuf#readableBytes()]{@link ByteBuf#readableBytes()}, you might want to strip the length
  * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
  * specified <tt>2</tt>, that is same with the length of the length field, to
  * strip the first two bytes.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * lengthAdjustment    = 0
  * <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * |  0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  * +--------+----------------+      +----------------+
  * </pre>

* 2 bytes length field at offset 0, strip header</pre>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
  * as <tt>lengthAdjustment</tt> for compensation.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * |  0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  * +--------+----------------+      +----------------+
  * </pre>

* 2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</pre>

*
* \(<b>lengthAdjustment</b>\) = \(<b>-2</b>\) (= the length of the Length field)
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----------------+---------------+      +-----------------+---------------+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +-----------------+---------------+
* </pre>

* ch3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt>lengthAdjustment</tt>\) is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \(<pre>\)
* \(<b>lengthFieldOffset</b>\)   = \(<b>2</b>\) (= the length of Header 1)
* \(<b>lengthFieldLength</b>\)   = \(<b>3</b>\)
* \(<b>lengthAdjustment</b>\)    = <b>0</b>
* \(<b>initialBytesToStrip</b>\) = 0

* BEFORE DECODE (17 bytes)    AFTER DECODE (17 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +-----------------+-----------------+
* </pre>

* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive \(<tt>lengthAdjustment</tt>\) so that the decoder counts the extra
* header into the frame length calculation.
* \(<pre>\)
* \(<b>lengthFieldOffset</b>\)   = 0
* \(<b>lengthFieldLength</b>\)   = 3
* \(<b>lengthAdjustment</b>\)   = \(<b>2</b>\) (= the length of Header 1)
* \(<b>initialBytesToStrip</b>\) = 0

* BEFORE DECODE (17 bytes)    AFTER DECODE (17 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +-----------------+-----------------+
* </pre>
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <tt>lengthAdjustment</tt>    = <tt>1</tt> (= the length of HDR2)
* <tt>initialBytesToStrip</tt> = <tt>3</tt> (= the length of HDR1 + LEN)
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-------+--------+------+----------------+      +-------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-------+--------+------+----------------+      +-------+----------------+
* </pre>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <tt>lengthAdjustment</tt>    = <tt>-3</tt> (= the length of HDR1 + LEN, negative)
* <tt>initialBytesToStrip</tt> = <tt>3</tt>
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-------+--------+------+----------------+      +-------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-------+--------+------+----------------+      +-------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4.1.51-final-sources.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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 * Enumeration of supported Base64 dialects.
 * 
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 */

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 * Utility class for { @link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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 */

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1.1269 netty-handler 4.1.61.Final

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKeyFactory.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/113055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
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  jar/io/netty/handler/ssl/PemValue.java
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  jar/io/netty/handler/flush/package-info.java
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  jar/io/netty/handler/ssl/package-info.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/ManagedTrustManager.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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  jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/IPPacket.java

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources.jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/utils/SimpleTrustManagerFactory.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/ContextBuilder.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/ApplicatonProtocolNames.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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---

layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |

The `/sys/license` endpoint is used to view and update the license used in
Vault.

---

# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>
### Sample Request

```bash
$ curl
   --header "X-Vault-Token: ...
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload
```json
{
  "text": "01ABCDEFG..."
}
```
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BSON library for Go

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mgo - MongoDB driver for Go

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import (
    "context"
    "fmt"
)
LicensesService handles communication with the license related methods of the GitHub API.

GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:`name,omitempty``
    Path *string `json:`path,omitempy``
    SHA       *string  `json:`sha,omitempy``
    Size      *int     `json:`size,omitempy``
    URL       *string  `json:`url,omitempy``
    HTMLURL   *string  `json:`html_url,omitempy``
    GitURL    *string  `json:`git_url,omitempy``
    DownloadURL string `json:`download_url,omitempy``
    Type      *string  `json:`type,omitempy``
    Content   *string  `json:`content,omitempy``
    Encoding  *string  `json:`encoding,omitempy``
    License   *License `json:`license,omitempy``
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key       *string `json:`key,omitempy``
    Name      *string `json:`name,omitempy``
    URL       *string `json:`url,omitempy``
    SPDXID    *string `json:`spdx_id,omitempy``
    HTMLURL   *string `json:`html_url,omitempy``
    Featured  *bool  `json:`featured,omitempy``
    Description *string `json:`description,omitempy``
    Implementation *string `json:`implementation,omitempy``
    Permissions  *[]string `json:`permissions,omitempy``
    Conditions   *[]string `json:`conditions,omitempy``
    Limitations *[]string `json:`limitations,omitempy``
    Body        *string `json:`body,omitempy``
}

func (l License) String() string {
    return Stringify(l)
}
// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    licenses := []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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* /opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
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* /opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
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1.1287 go-runewidth v0.0.2

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1.1294 ginkgo v1.12.1

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1.1295 go-shlex v0.0.0-20161002113705-648efa622239

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1.1296 prometheus-snmp_exporter v0.19.0

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1.1297 jackson-databind 2.9.8

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# Jackson JSON processor

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

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1.1298 go-connections v0.4.0

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* $Id$
*/

1.1302 lint v0.0.0-20200302205851-738671d3881b

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1.1303 prometheus-exporter-toolkit v0.5.1

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1.1304 go-ieproxy v0.0.1

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1.1306 go-zookeeper-zk v1.0.2

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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_filter.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_standarderror.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3.7.3/orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/distutils/dist.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3.7.3/orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/pgen2/tokenize.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3.7.3/orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/distutils/spawn.py
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (\| Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] (STRING [Repeater]
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')' | '[' Alternatives ']

Repeater: '"' | '+' | '[' NUMBER [','] NUMBER ']

Details: '<' Alternatives '>'

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  extensions-3.7.3.3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/Pytree.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_repr.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/pygram.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
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  extensions-3.7.3.3.6/Lib/lib2to3/patcomp.py
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  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_apply.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixer_base.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_print.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-
  extensions-3.7.3.3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-

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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/pytree.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/refactor.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_ne.py
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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/pf樹_idempotency.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/pf樹_idempotency.py

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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.6/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/Lib/lib2to3/pgen2/parser.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/Lib/lib2to3/pgen2/parse.py

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* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1127087901_1611776830.58/0/python3-stdlib-extensions-3-7-3-orig-1-tar-xz/python3-stdlib-extensions-3.7.3/3.7/Lib/distutils/command/bdist_msi.py

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArraySerializerFactory.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/PlainTextDataSource.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/BackslashUtil.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/SymTabEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/providers/WSDDComProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/FactoryFinder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDBeanMapping.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/server/ServletEndpointContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/PlainTextDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMapping.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/server/ServletEndpointContext.java
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jar/org/apache/axis/message/RPCHolderParam.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/FaultableHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRPCProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/jav/ex/rpc/holders/CalendarHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/AbstractCompiler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/ElementDecl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaServiceIfaceWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/session/Session.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ElementSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/DocumentDeserializer.java
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jar/org/apache/axis/attachments/DynamicContentDataHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDGlobalConfiguration.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPHeader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfo.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaClassWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/DetailEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/PlainTextDataHandlerSerializer.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/CommonsHTTPSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/XMLType.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/local/LocalSender.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/ServiceAdmin.java
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jar/org/apache/axis/management/jmx/WSDDServiceWrapper.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDJAXRCHandlerInfoChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/cache/ClassCache.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorManager.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLHelper.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapterFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/MapUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSListener.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/SonicMQVendorAdapterFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/MSVendorAdapterFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/MSURLConnection.java

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSEndpoint.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConstants.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Subscription.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/bytecode/ClassReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/UnsignedIntHolder.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/ElementDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/DetailEntry.java
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1.1313 pflag v1.0.5

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1.1315 net v0.0.0-20200520004742-59133d7f0dd7

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**1.1317 jackson-annotations 2.12.0**

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1.1318 jackson-annotations 2.9.5

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1.1320 busybox 1.32.1-r6

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1328 xpath v1.0.0
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1.1332 apr 1.6.5

1.1333 zipkin-go v0.2.2

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NR START END SECTORS SIZE NAME UUID
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2  7680 16383  8704  4.3M  8f8378c0-02
5  7936 12799  4864  2.4M
6 12544 16127  3584  1.8M

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jar/io/netty/buffer/UnpooledHeapByteBuf.java
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jar/io/netty/buffer/PoolThreadCache.java
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```

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```
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```

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

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1.1370 go-openapi-strfmt v0.20.0

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src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
# src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
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1.1381 e2fsprogs 1.44.3

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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1.1417 pretty v0.0.0-20200227124842-a10e7caefd8e

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1.1418 grpc-gateway v1.9.5

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Found in path(s):
* /opt/cola/permits/1152699311_1630504755.77/0/cpd-main-zip/cpd-main/cmd/gradlew.bat
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#
##############################################################################
##  Gradle start up script for UN*X
##
##############################################################################

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while [ -h "$PRG" ] ; do
  ls=`ls -ld "$PRG"
  link=`expr "$ls" : '.*-> (.*,.*$)'`
  if expr "$link" : '/.*' > /dev/null; then
    PRG="$link"
  else
    PRG=`dirname "$PRG"`"/"$link"
  fi
fi
done
SAVED="$pwd"

cd "dirname "$PRG"/" >/dev/null

APP_HOME="pwd -P"

cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this
# script.
DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD !-1 to use that value.
MAX_FD="maximum"

warn () {
  echo "$*"
}
die () {
  echo
  echo "$*"
  echo
  exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false

case """" in
  CYGWIN* )
    cygwin=true
    ;;
  Darwin* )
    darwin=true
    ;;
  MINGW* )
    msys=true
    ;;
  NONSTOP* )
    nonstop=true
    ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar
# Determine the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
    if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
        # IBM's JDK on AIX uses strange locations for the executables
        JAVACMD="$JAVA_HOME/jre/sh/java"
    else
        JAVACMD="$JAVA_HOME/bin/java"
    fi
    if [ ! -x "$JAVACMD" ] ; then
        die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
Please set the JAVA_HOME variable in your environment to match the location of your Java installation."
        fi
    else
        JAVACMD="java"
        which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH.
Please set the JAVA_HOME variable in your environment to match the location of your Java installation."
        fi
fi

# Increase the maximum file descriptors if we can.
if [ "$cygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
    MAX_FD_LIMIT=`ulimit -H -n`
    if [ $? -eq 0 ] ; then
        if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max" ] ; then
            MAX_FD="$MAX_FD_LIMIT"
        fi
        ulimit -n $MAX_FD
        if [ $? -ne 0 ] ; then
            warn "Could not set maximum file descriptor limit: $MAX_FD"
        fi
    else
        warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
    fi
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
    GRADLE_OPTS="$GRADLE_OPTS "-Xdock:name=$APP_NAME" "-Xdock:icon=$APP_HOME/media/gradle.icns"
fi

# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
    APP_HOME=`cygpath --path --mixed "$APP_HOME"`
    CLASSPATH=`cygpath --path --mixed "$CLASSPATH"`

    JAVACMD=`cygpath --unix "$JAVACMD"`

    # We build the pattern for arguments to be converted via cygpath
    ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
    SEP=""
    for dir in $ROOTDIRSRAW ; do
        ROOTDIRS="$ROOTDIRS$SEP$dir"
        SEP="|"
    done
    OURCYGPATTERN="(^($ROOTDIRS))"

    # Add a user-defined pattern to the cygpath arguments
    if [ "$GRADLE_CYGPATTERN" != "" ] ; then
        OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
    fi

    # Now convert the arguments - kludge to limit ourselves to /bin/sh
    i=0
    for arg in "$@" ; do
        CHECK=`echo "$arg"|egrep -c "^($ROOTDIRS)"`
        CHECK2=`echo "$arg"|egrep -c "^-$"`
        if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then
            eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
        else
            eval `echo args$i`=""$arg""
        fi
        i=`expr $i + 1`
    done
    case $i in
        0) set -- ;;
        1) set -- "$args0" ;;
        2) set -- "$args0" "$args1" ;;
        3) set -- "$args0" "$args1" "$args2" ;;
        4) set -- "$args0" "$args1" "$args2" "$args3" ;;
        5) set -- "$args0" "$args1" "$args2" "$args3" "$args4" ;;
        6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
        7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
        8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
        9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
        esac
    fi

    # Escape application args
    save () { for i do printf %s\n "$i" | sed "s/$/\"/g;1s/^/\"$s/\"/\"/" ; done

Found in path(s):
* /opt/cola/permits/1152699311_1630504755.77/0/cpd-main-zip/cpd-main/cmd/gradlew

1.1420 v3 v3.1.0

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1.1426 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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1.1427 luasocket 5.0.2

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1.1428 certifi 2021.05.30

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1.1439 v2 v2.0.0

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package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := r.(ResourcePage).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

#### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

#### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.
If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.
### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you’re [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```
```
```
```
```
```
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.
The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

### Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens,
a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you’ve run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your
Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (
    "fmt"
    "net/http"
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}
// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource};

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th ","github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.Tear downHTTP()
HandleListResourcesSuccessfully(t)

count := 0
    count++

    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

    return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }
actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {

return client.ServiceURL("resource", id)

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At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to...
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:
* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for issues, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

```
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
```

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID     string `json:"id"
    Name   string `json:"name"
    AdminStateUp bool `json:"admin_state_up"
```

```
Status  string  `json:"status"`
Subnets  []string  `json:"subnets"`
TenantID  string  `json:"tenant_id"`
Shared  bool  `json:"shared"
}
```
```go
type Network struct {
    ID                    string  `json:"id"
    Name                  string  `json:"name"
    AdminStateUp          bool  `json:"admin_state_up"
    Status                string  `json:"status"
    Subnets               []string  `json:"subnets"
    TenantID              string  `json:"tenant_id"
    Shared                bool  `json:"shared"
    AvailabilityZoneHints []string  `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.
When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

### 1.1441 cpuid v1.2.0

#### 1.1441.1 Available under license:
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### 1.1442 go v1.1.8

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1.1443 golang-lru v0.5.4

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