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1.1 etc 1.0.0

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1.5 fribidi 0.19.7-2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
    close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+ goto finished;
+
+ if (stat(flag, &s) != 0)
+ {
+   display_file(pamh, "/etc/legal");
+   mkdir(dir, 0700);
+   f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+      S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+   if (f!=0) close(f);
+ }
+
+ finished:
+   if (pam_modutil_regain_priv(pamh, &privs)) {
+     pam_syslog(pamh, LOG_ERR,
+       "Unable to change UID back to \%d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+   }
+   
+   _pam_drop(flag);
+   _pam_drop(dir);
+ }
+ return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
   display_file(pamh, motd_path);
+
+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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```

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1.16 tre 1.1.20-r5

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1.17 libx11 1.6.4-3ubuntu0.1

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1.24 fiddle 1.0.0

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1.25 hibernate-validator 5.4.3.Final

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 *
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

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/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

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/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

* Script expressions can be written in any scripting or expression language,
* for which a `<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>`
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* `[@link javax.validation.ParameterNameProvider]`. By default, `[@code arg0]`, `[@code arg1]` etc.
* will be used as parameter names.

* The following listing shows an example using the JavaScript engine which
* comes with the JDK:

```java
[@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

* Can be specified on any method or constructor.

*/

@author Gunnar Morling
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  jar/org/hibernate/validator/internal/util/TypeHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/ElTermResolver.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/valuehandling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java

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  jar/org/hibernate/validator/internal/engine/messageinterpolation/ElTermResolver.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/valuehandling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-
  jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java

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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/ConstraintComposition.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMaxValidatorForCharSequence.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/br/TituloEleitoral.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForReadableInstant.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/parameternameprovider/ReflectionParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/ParameterMetaData.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaDataImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/engine/valuehandling/TypeResolverBasedValueUnwrapper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedFunctionMapper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluatorFactory.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/interlin/metadata/descriptor/ElementDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/cfg/defs/SafeHtmlDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/constraintvalidation/HibernateConstraintValidatorContext.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/constraintvalidators/bv/past/PastValidatorForOffsetDateTime.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/cfg/context/ConstraintDefinitionContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/constraints/br/CPF.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/metada/descriptor/ExecutableDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/constraintvalidators/br/CPFDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/metadata/aggregated/rule/MethodConfigurationRule.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/engine/messageinterpolation/EnumResolver.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validation/internal/metadata/core/ConstraintOrigin.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/defs/SizeDef.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/URL.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructors.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/messageinterpolation/AbstractMessageInterpolator.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/spi/valuehandling/package-info.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/ModCheckBase.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/Version.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfDouble.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DigitsValidatorForNumber.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/BeanDescriptorImpl.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptionsImpl.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/xml/BootstrapConfigurationImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/SetContextClassLoader.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetClassLoader.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/defs/ParameterScriptAssertDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/context/MethodTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/parameternameprovider/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/EAN.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/min/MinValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/context/ConstraintDefinitionTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/DigitsValidatorForCharSequence.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/NotRequiredValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/NotNullValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/MinValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/path/PropertyNode.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraintvalidators/bv/DecimalMinValidatorForMonetaryAmount.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/config/context/ExecutableConstraintMappingContextImpl.java

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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/util/logging/package.html
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/metadata/core/package.html
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/config/package.html
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources.jar/org/hibernate/validator/internal/config/defs/package.html
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1.26 miekg-dns v1.0.14

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1.28 gofrs-flock v0.7.1
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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### 1.31 jcl-over-slf4j 1.7.30

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%(#) SRC$file: certdata.txt,v $ Revision: 1.80 $ Date: 2011/11/03 15:11:58 $

1.34 keyutils 1.5.9 9.2ubuntu2
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Section 6 states terms for distribution of such executables.

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1.43 ncurses 6.1_p20200118-r4

1.43.1 Available under license:

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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* /opt/cola/permits/1112082519_1612227680.51/0/howardhinnant-date-v1-0-0-0-gcb33a27-tar-gz/HowardHinnant-date-cb33a27/test/iso_week/weekday_indexed.pass.cpp
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

------
Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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From network_io/unix/inet_ntop.c, network_io/unix/inet_ntop.c:

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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The following was received February 23, 2000 From: "Linn, John" February 19,
2000

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1.50 flask 0.12.2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.59 queue v0.0.0-20180227141424-093482f3f8ce

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key",omitempty`
    Name  *string `json:"name",omitempty`
    URL   *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[][]string `json:"required",omitempty`
    Permitted      *[][]string `json:"permitted",omitempty`
    Forbidden      *[][]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}
return license, resp, err
}
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
        
            
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
} }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `{"key":"mit","name":"MIT"}`)
    })
}

license, _, err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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1.69 jersey-hk2 2.28

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1.70 binutils 2.30 21ubuntu1~18.04.5

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

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

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

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnum 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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**1.72 libxtst 1.2.3-1**

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1.73 socat 1.7.3.3-r1

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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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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempy"`
    URL  string `json:"url,omitempy"`
}

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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"
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key: "dvs",
             Value: "vSphere Distributed Switch",
         }},
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
}
for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
        body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        return body
    }
}

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,
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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Protocol Buffers for Go with Gadgets

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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", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v\n in plugin "%v\n", 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", 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
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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- Copy files to and from Containers in a cluster

# 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.

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
```
{% sample lang="yaml" %}

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

{% endmethod %}

runc

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goproperties - properties file decoder for Go

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ispell-local-pdict: "ispell-dict"
End:

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Version 2.1, February 1999

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1.91 ruby-defaults 2.5.1

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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"},
    }
}
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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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`;
}
}

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package cmd
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
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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
    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 == "" {
err("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 ""
}

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        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
it under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation, either version 3 of the License, or
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package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"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.
        You may obtain a copy of the License at
    `}
}
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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 copies of the Software, and to permit persons to whom the Software is

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1.108 dbus-python 1.2.6

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1.114 protobuf v1.25.0

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1.117 jsonpointer 1.10

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1.118 taglibs-standard-spec 1.2.5

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Protocol Buffers for Go with Gadgets

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

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification."

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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1.132 conntrack-tools 1.4.4 9.el8

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1.142 debianutils 4.8.1.1

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

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

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

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

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

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

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

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

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

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copy of the library already present on the user's computer system,
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1.152 x-crypto v0.0.0-20200414173820-0848c9571904

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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.
            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("%s: license header not present. want %q", path, sentinel)
                return nil
            }
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}

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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- web-app_4_0.xsd
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1.173 pam 1.1.8 3.6ubuntu2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     int display_legal(pam_handle_t *pamh)
     +{
     +    int retval = PAM_IGNORE, rc;
     +    char *user = NULL;
     +    char *dir = NULL;
     +    char *flag = NULL;
     +    struct passwd *pwd = NULL;
     +    struct stat s;
     +    int f;
     +    /* Get the user name to determine if we need to print the disclaimer */
     +    rc = pam_get_item(pamh, PAM_USER, &user);
     +    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != \0')
     +    +{
     +    +    PAM_MODUTIL_DEF_PRIVS(privs);
     +    +
     +    +    /* Get the password entry */
     +    +    pwd = pam_modutil_getpwnam (pamh, user);
     +    +    if (pwd != NULL)
     +    +    +{
     +    +    +    if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
     +    +    +    +    pam_syslog(pamh, LOG_ERR,
     +    +    +    +    "Unable to change UID to %d temporarily\n",
     +    +    +    +    pwd->pw_uid);
     +    +    +    +    retval = PAM_SESSION_ERR;
     +    +    +    +    goto finished;
     +    +    +    +
     +    +    +    +    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
     +    +    +    +    mkdir(dir, 0700);
     +    +    +    +    f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
     +    +    +    +    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
```c
+    if (f>=0) close(f);
+    }
+
+} finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+        retval = PAM_SESSION_ERR;
+    }
+
+    _pam_drop(flag);
+    _pam_drop(dir);
+}
+
+ return retval;
+
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);
+
+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.174 containernetworking-cni v0.7.1

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1.185 tacacs-plus 2.6

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1.186 jaxb-core 2.2.11

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1.188 gson 2.8.2

1.189 btree 3.2.17+dfsg-1

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1.193 kubernetes-client v0.20.1

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package github

import "fmt"

// LicensesService handles communication with the license related methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Category       *string   `json:"category,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Required       []*string `json:"required,omitempty"`
    Permitted      []*string `json:"permitted,omitempty"`
    Forbidden      []*string `json:"forbidden,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
}
// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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

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

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package github

import {
    "fmt"
    "net/http"
    "reflect"
    "testing"
}

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)  
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key:  String("mit"),
            Name: String("MIT"),
            URL:  String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)  
    })

    licenses, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", licenses, want)
    }
}

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//
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// license that can be found in the LICENSE file.
license, _ err := client.Licenses.Get("mit")
if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}

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Protocol Buffers for Go with Gadgets

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1.208 libcap 2.26-1.el8

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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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1.219 libxcrypt 4.1.1-4.el8

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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/
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-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

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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1.228 debianutils 4.8.4

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DES core in libhcrypto

D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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1.232 bean-validation-api 1.1.0.Final

1.233 mawk 1.3.3 17ubuntu3

1.233.1 Available under license :

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Blog Blueprint
You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them out.

The Blueprint
-------------

Define the blueprint and register it in the application factory.

```python
from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
from werkzeug.exceptions import abort
from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using :meth:`app.register_blueprint() <Flask.register_blueprint>`. Place the new code at the end of the factory function before returning the app.

```python
def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a
So the `index` view will be at `~/`, the `create` view at `~/create`, and so on. The blog is the main feature of Flaskr, so it makes sense that the blog index will be the main index.

However, the endpoint for the `index` view defined below will be `blog.index`. Some of the authentication views referred to a plain `index` endpoint. `app.add_url_rule()` associates the endpoint name `index` with the `~/` url so that `url_for('index')` or `url_for('blog.index')` will both work, generating the same `~/` URL either way.

In another application you might give the blog blueprint a `url_prefix` and define a separate `index` view in the application factory, similar to the `hello` view. Then the `index` and `blog.index` endpoints and URLs would be different.

The index will show all of the posts, most recent first. A `JOIN` is used so that the author information from the `user` table is available in the result.

```python
@bp.route('/

def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username' 
        ' FROM post p JOIN user u ON p.author_id = u.id' 
        ' ORDER BY created DESC'
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```html
{% extends 'base.html' %}
{% block header %}
    <h1>{% block title %}Posts{% endblock %}</h1>
{% if g.user %}
    <a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
{% endblock %}
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside `Jinja for loops`. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create

------

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python

   @bp.route('/create', methods=('GET', 'POST'))
   @login_required
   def create():
if request.method == 'POST':
    title = request.form['title']
    body = request.form['body']
    error = None

    if not title:
        error = 'Title is required.'

    if error is not None:
        flash(error)
    else:
        db = get_db()
        db.execute(
            'INSERT INTO post (title, body, author_id)
             VALUES (?, ?, ?)',
            (title, body, g.user['id'])
        )
        db.commit()
        return redirect(url_for('blog.index'))

    return render_template('blog/create.html')

.. code-block:: html+jinja
:caption: `flaskr/templates/blog/create.html`

{% extends 'base.html' %}
{% block header %}
<h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}
{% block content %}
<form method="post">
    <label for="title">Title</label>
    <input name="title" id="title" value="{{ request.form['title'] }}" required>
    <label for="body">Body</label>
    <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
    <input type="submit" value="Save">
</form>
{% endblock %}

Update
-------

Both the `update` and `delete` views will need to fetch a `post` by `id` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the `post` and call
it from each view.

```python
:caption: `flaskr/blog.py`

def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username
         FROM post p JOIN user u ON p.author_id = u.id
         WHERE p.id = ?
        ', (id,)).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

    if check_author and post['author_id'] != g.user['id']:
        abort(403)

    return post

```

`func:` `abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. ``404`` means "Not Found", and ``403`` means "Forbidden". (``401`` means "Unauthorized", but you redirect to the login page instead of returning that status.)

The `check_author` argument is defined so that the function can be used to get a `post` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

```python
:caption: `flaskr/blog.py`

@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

    if not title:
        error = 'Title is required.'
if error is not None:
    flash(error)
else:
    db = get_db()
    db.execute(
        'UPDATE post SET title = ?, body = ?
        WHERE id = ?',
        (title, body, id)
    )
    db.commit()
    return redirect(url_for('blog.index'))

return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the `update` function takes an argument, `"id"`. That corresponds to the `"<int:id>"` in the route. A real URL will look like `/1/update`. Flask will capture the `"1"`, ensure it's an :class:`int`, and pass it as the `"id"` argument. If you don't specify `"int:"` and instead do `"<id>"`, it will be a string.

To generate a URL to the update page, :func:`url_for` needs to be passed the `"id"` so it knows what to fill in: `"url_for('blog.update', id=post["id"])"`. This is also in the `"index.html"` file above.

The `"create"` and `"update"` views look very similar. The main difference is that the `"update"` view uses a `"post"` object and an `"UPDATE"` query instead of an `"INSERT"`. With some clever refactoring, you could use one view and template for both actions, but for the tutorial it's clearer to keep them separate.

.. code-block:: html+jinja

    {% extends 'base.html' %}

    {% block header %}
    <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
    {% endblock %}

    {% block content %}
    <form method="post">
        <label for="title">Title</label>
        <input name="title" id="title"
            value="{{ request.form['title'] or post['title'] }}" required>
        <label for="body">Body</label>
        <textarea name="body" id="body">
            {{ request.form['body'] or post['body'] }}
        </textarea>
        <input type="submit" value="Save">
    </form>
    {% endblock %}
This template has two forms. The first posts the edited data to the current page (`/<id>/update`). The other form contains only a button and specifies an `action` attribute that posts to the delete view instead. The button uses some JavaScript to show a confirmation dialog before submitting.

The pattern `{{ request.form['title'] or post['title'] }}` is used to choose what data appears in the form. When the form hasn't been submitted, the original `post` data appears, but if invalid form data was posted you want to display that so the user can fix the error, so `request.form` is used instead. :data:`request` is another variable that's automatically available in templates.

Delete
------

The delete view doesn't have its own template, the delete button is part of `update.html` and posts to the `/<id>/delete` URL. Since there is no template, it will only handle the `POST` method and then redirect to the `index` view.

```python
@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to :doc:`install`.

Found in path(s):
* /opt/cola/permits/1168197544_1621956566.63/0/pallets-flask-2-0-1-0-gbc90801-tar-gz/pallets-flask-
Flask Extension Development
================================

Flask, being a microframework, often requires some repetative steps to get a third party library working. Many such extensions are already available on `PyPI`.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension
-------------------------

Extensions are all located in a package called ``flask_something`` where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package ``flask_simplexml``.

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unit tests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"
So let's get started with creating such a Flask extension. The extension we want to create here will provide very basic support for SQLite3.

First we create the following folder structure:

    flask-sqlite3/
    flask_sqlite3.py
    LICENSE
    README

Here's the contents of the most important files:

setup.py
------

The next file that is absolutely required is the `setup.py` file which is used to install your Flask extension. The following contents are something you can work with:

```python
Flask-SQLite3
------------
This is the description for that library
```

from setuptools import setup

setup(
    name='Flask-SQLite3',
    version='1.0',
    url='http://example.com/flask-sqlite3/',
    license='BSD',
    author='Your Name',
    author_email='your-email@example.com',
    description='Very short description',
    long_description=__doc__,
    py_modules=['flask_sqlite3'],
    # if you would be using a package instead use packages instead
    # of py_modules:
    # packages=['flask_sqlite3'],
    zip_safe=False,
    include_package_data=True,
    platforms='any',
    install_requires=['Flask']
)
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

flask_sqlite3.py

`````````````````````````````````````
Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

Initializing Extensions
`````````````````````````````````````

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

- initialization functions:

  If your extension is called `helloworld` you might have a function called ```init_helloworld(app[, extra_args])``` that initializes the extension for that application. It could attach before / after handlers etc.

- classes:

  Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an
object that handles opening and closing database connections.

When designing your classes, it's important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable between different applications.

The Extension Code
------------------

Here's the contents of the `flask_sqlite3.py` for copy/paste::

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

    @property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
            return ctx.sqlite3_db

    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

    @property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
            return ctx.sqlite3_db

So here's what these lines of code do:

1. The `__init__` method takes an optional app object and, if supplied, will call `init_app`
2. The `init_app` method exists so that the `SQLite3` object can be
instantiated without requiring an app object. This method supports the factory pattern for creating applications. The `init_app` will set the configuration for the database, defaulting to an in memory database if no configuration is supplied. In addition, the `init_app` method attaches the `teardown` handler.

3. Next, we define a `connect` method that opens a database connection.

4. Finally, we add a `connection` property that on first access opens the database connection and stores it on the context. This is also the recommended way to handling resources: fetch resources lazily the first time they are used.

Note here that we're attaching our database connection to the top application context via `._app_ctx_stack.top`. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this::

    from flask import Flask
    from flask_sqlite3 import SQLite3
    
    app = Flask(__name__)
    app.config.from_pyfile('the-config.cfg')
    db = SQLite3(app)

You can then use the database from views like this::

    @app.route('/')
    def show_all():
        cur = db.connection.cursor()
        cur.execute(...)  

Likewise if you are outside of a request you can use the database by pushing an app context::

    with app.app_context():
        cur = db.connection.cursor()
        cur.execute(...)  

At the end of the `with` block the teardown handles will be executed automatically.

Additionally, the `init_app` method is used to support the factory pattern for creating apps::

    db = SQLite3()  
    # Then later on.
app = create_app('the-config.cfg')
db.init_app(app)

Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).

.. admonition:: Note on ``init_app``

As you noticed, ``init_app`` does not assign ``app`` to ``self``. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`~flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using _app_ctx_stack

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

In the example above, before every request, a ``sqlite3_db`` variable is assigned to ``_app_ctx_stack.top``. In a view function, this variable is accessible using the ``connection`` property of ``SQLite3``. During the teardown of a request, the ``sqlite3_db`` connection is closed. By using this pattern, the *same* connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others

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

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions on the `PyPI`_. If you feel lost there is still the `mailinglist`_ and the `Discord server`_ to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the
API. And this can only work if collaboration happens early.

Approved Extensions
-------------------

Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*. It must provide exactly one package or module named ``flask_extension_name``.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension's API must have the following characteristics:

   - It must support multiple applications running in the same Python process. Use ``current_app`` instead of ``self.app``, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the ``ext.init_app()`` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with ``pip install -e``.

5. It must ship a testing suite that can be invoked with ``tox -e py`` or ``pytest``. If not using ``tox``, the test dependencies should be specified in a ``requirements.txt`` file. The tests must be part of the sdist distribution.

6. The documentation must use the ``flask`` theme from the `Official Pallets Themes`_. A link to the documentation or project website must be in the PyPI metadata or the readme.

7. For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.6+ is recommended as of 2020. Use ``python_requires=">= 3.6"`` in ``setup.py`` to indicate supported versions.

   .. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
   .. _mailinglist: https://mail.python.org/mailman/listinfo/flask
   .. _Discord server: https://discord.gg/pallets
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Flask leverages Jinja2 as its template engine. You are obviously free to use

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* /opt/cola/permits/1168197544_1621956566.63/0/pallets-flask-2-0-1-0-gbc90801-tar-gz/pallets-flask-d81b7bf/setup.cfg

1.237 sprig v3.1.0

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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@(#)bitstring.3 5.1 (Berkeley) 12/13/89

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   */

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.
You don’t have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab` program will do this the first time they run if they don’t exist. You do need to have a /var, though -- just "mkdir /var" if you don’t have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile file. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man` and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab` command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile file. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man` and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

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make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab` command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

crontab -u news -r /usr/lib/news/crontab.src

crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r` command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
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  /* $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $ */
```
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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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\" */
\" 
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\"

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1.251 ssh-import-id 5.7

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1.253 keyutils 1.5.10-6.el8

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1.256 prometheus-common v0.4.1

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* *---------------------------------------------------------------------------
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/************************************************************************
* NCSA HTTPd Server
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* National Center for Supercomputing Applications
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1.260 x-time-rate
555d28b269f0569763d25dbe1a237ae74c6bcc8

2

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1.261 python-uritemplate 0.6-1ubuntu1

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* /opt/cola/permits/1137148249_1614022746.18/0/python-uritemplate-0-6-orig-1-tar-xz/python-uritemplate-0.6/uritemplate/__init__.py

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uritemplate
============

.. image:: https://secure.travis-ci.org/uri-templates/uritemplate-py.png?branch=master
   :alt: build status
   :target: http://travis-ci.org/uri-templates/uritemplate-py

This is a Python implementation of `RFC6570`_, URI Template, and can expand templates up to and including Level 4 in that specification.

It exposes a method, *expand*. For example:
It also exposes a method *variables* that returns all variables used in a uritemplate. For example:

.. code-block:: python

    >>> from uritemplate import variables
    >>> variables('http:www{.domain*}{/top,next}{?q:20}
    >>> set(['domain', 'next', 'q', 'top'])

This function can be useful to determine what keywords are available to be expanded.


Requirements
-------------

uritemplate works with Python 2.5+.

.. note:: You need to install `simplejson` module for Python 2.5.

.. _simplejson: https://pypi.python.org/pypi/simplejson/

Install
-------

The easiest way to install uritemplate is with pip:

    $ pip install uritemplate

See its `Python Package Index entry` for more.

.. _Python Package Index entry: http://pypi.python.org/pypi/uritemplate

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* /opt/cola/permits/1137148249_1614022746.18/0/python-uritemplate-0.6-orig-1-tar-xz/python-uritemplate-0.6/README.rst

1.262 mbed-tls 2.16.8

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.271 openssl 1.0.2n-1ubuntu5.7

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian
int display_legal(pam_handle_t *pamh)
{
    int retval = PAM_IGNORE, rc;
    char *user = NULL;
    char *dir = NULL;
    char *flag = NULL;
    struct passwd *pwd = NULL;
    struct stat s;
    int f;
    /* Get the user name to determine if we need to print the disclaimer */
    rc = pam_get_item(pamh, PAM_USER, &user);
    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
    {
        PAM_MODUTIL_DEF_PRIVS(privs);

        /* Get the password entry */
        pwd = pam_modutil_getpwnam(pamh, user);
        if (pwd != NULL)
        {
            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
                pam_syslog(pamh, LOG_ERR,
                    "Unable to change UID to %d temporarily\n",
                    pwd->pw_uid);
                retval = PAM_SESSION_ERR;
                goto finished;
            }

            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
                goto finished;
            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
                goto finished;

            if (stat(flag, &s) != 0)
            {
                display_file(pamh, "/etc/legal" );
                mkdir(dir, 0700);
                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
                if (f>=0) close(f);
            }
        }
    }

    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
        goto finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
        goto finished;

    if (stat(flag, &s) != 0)
    {
        display_file(pamh, "/etc/legal" );
        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
            S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }
finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                   "Unable to change UID back to %d
\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
}
return retval;

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
                        int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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1.276 bash 4.4.18 2ubuntu1.2

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.288 pysnmp 4.4.3

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1.289 errors v0.9.1

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1.290 libcap-ng 0.7.7-3+b1

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1.292 zlib 1.2.8

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1.293 sed 4.4-1

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1.294 unzip 6.0-21ubuntu1.1

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* MoreFiles
*
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*
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*
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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1.297 metrics-httpclient 4.1.12.1

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
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name: Module-Build
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<one line to give the program’s name and a brief idea of what it does.>
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Ty Coon, President of Vice

That's all there is to it!
#!perl

=head1 NAME
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the `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 `--now` option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

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

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

my ($opt) = @ARGV;

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

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

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

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

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

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

  $year;
}

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

  $year;
}

1.304 alsa-lib 1.1.3-5ubuntu0.2

1.305 javax-el 3.0.0
1.305.1 Available under license :

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2
use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!
";
$fs->lock( $fh, F_SETLK )
or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
or print "Unlocking failed: " . $fs->error . "\n";

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and
use Perl code to assemble and disassemble the structure. For this at some
time the (system-dependent) binary layout of the flock structure must
have been determined via a program written in C. The difference between
File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former
this happened when the package is installed while for the latter it is
done each time the package is loaded (e.g., with C<use>). Thus, for
File::FcntlLock::Inline to work a C compiler must be available. There
are some minor differences in the functionality and the behaviour on
passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=item C<new()>  
To create a new object, representing a flock structure, call L<new()>:

$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the
flock structure to be passed to L<fcntl(2)> (see below). Per default
on object creation the L<l_type> property is set to C<F_RDLCK>,
L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0,
i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set
of key-value pairs to initialize the objects properties, e.g., use

$fs = new File::FcntlLock( l_type   => F_WRLCK,
            l_whence => SEEK_SET,
            l_start  => 0,
            l_len    => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=over 4
If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either `F_RDLCK`, `F_WRLCK` or `F_UNLCK` (for read lock, write lock or unlock).

This method sets, when called with an argument, the `l_whence` property of the flock object, determining if the `l_start` value is relative to the start of the file, to the current position in the file or to the end of the file. These values are `SEEK_SET`, `SEEK_CUR` and `SEEK_END` (also see the man page for `lseek(2)`). If called with no argument the current value of the property is returned.

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the `l_whence` member. See also the man page for `lseek(2)`.

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at `l_start`, to the end of the file. E.g., a lock obtained with `l_whence` set to `SEEK_SET` and both `l_start` and `l_len` set to 0 locks the complete file.

According to SUSv3 support for negative values for `l_len` are permitted, resulting in a lock ranging from `l_start+l_len` up to and including `l_start-1`. But not all systems support negative values for `l_len` and will return an error when you try to obtain such a lock, so please read the `fcntl(2)` man page of the system carefully for details.

If a call of the `lock()` method with `F_GETLK` indicates that another process is holding the lock (in which case the `l_type` property will be either `F_WRLCK` or `F_RDLCK`) a call of the `l_pid()` method returns the PID of the process holding the lock. This method does not accept any arguments.
After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the \texttt{lock()} method:

\begin{verbatim}
$fs->lock( $fh, F_SETLK );
\end{verbatim}

There are three values that can be used as the second argument:

\begin{verbatim}
=F_SETLK
This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\begin{verbatim}
$fs->lock( $fh, F_SETLK );
\end{verbatim}

With \texttt{F_SETLK} the \texttt{lock()} method tries to obtain a lock (when \texttt{l_type} is set to either \texttt{F_WRLCK} or \texttt{F_RDLCK}) or releases it (if \texttt{l_type} is set to \texttt{F_UNLCK}). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns \texttt{undef} and \texttt{errno} is set to \texttt{EACCESS} or \texttt{EAGAIN} (please see the the man page for \texttt{fcntl(2)} for more details).

\begin{verbatim}
=F_SETLKW
is similar to \texttt{F_SETLK}, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns \texttt{undef} and \texttt{errno} is set to \texttt{EINTR}.
\end{verbatim}

\begin{verbatim}
=F_GETLK
With \texttt{F_GETLK} the \texttt{lock()} method determines if and which process currently is holding the lock. If there's no other lock the \texttt{l_type} property will be set to \texttt{F_UNLCK}. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. \texttt{F_GETLK}
\end{verbatim}
will only make details of one of these processes visible, and one has no control over which process this is.

On success the `lock()` method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an `undef` return value) you can either immediately evaluate the error number (using `$!`, `$ERRNO` or `$OS_ERROR`) or check for it via the methods discussed below at some later time.

=head2 Error handling

There are minor differences between `File::FcntlLock` on the one hand and `File::FcntlLock::Pure` and `File::FcntlLock::Inline` on the other, due to the first calling the system function `fcntl(2)` directly while the latter two invoke the Perl `fcntl` function. Perl's `fcntl` function already returns a Perl error on some types of invalid arguments. In contrast `File::FcntlLock` passes them on to the `fcntl(2)` system call and then returns the system's response to the caller.

There are three methods for obtaining information about the reason the a call of the `lock()` method failed:

=over 4
=item C<lock_errno()>

Returns the `errno` error number from the latest call of `lock()`. If the last call did not result in an error `undef` is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of `lock()`. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns `undef`.

=item C<system_error()>

While the `error()` method tries to return a string with some direct
relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=head2 EXPORT

The package exports the following constants:

=item F_GETLK F_SETLK F_SETLKW
=item F_RDLCK F_WRLCK F_UNLCK
=item SEEK_SET SEEK_CUR SEEK_END

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>
SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<seek(2)>.

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File::FcntlLock

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function).
Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

    perl Makefile.PL
    make
    make test
    make install

DEPENDENCIES

The module requires the following other modules:

    POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlLock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

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helped correcting the documentation and pointed out problems arising on
GNU Hurd (which seems to have only very rudimentary support for locking
with fcntl(2), at least at that time). Niko Tyni and Guillem Jover
couraged and helped with implementing alternatives to a XS-only
approach which hopefully will make the module more useful under certain
circumstances.

AUTHOR

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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

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1.324 configobj 5.0.6

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1.331 x-sys v0.0.0-20190616124812-15dcb6c0061f

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1.334 icu 60.2 3ubuntu3.1

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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
THREADSCPFLAGS = -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,-Bs symbolic

## 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 $@ $<
```

---

Open Source Used In RCM 21.25 3537
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.c) $< \n | sed "s/(.*)\.o : /\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@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}.$(SO).$(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
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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * 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

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

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* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

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* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

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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 <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* 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

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* 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.
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  * IPv6 HTTPS proxy bugfix

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  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  * Creation of ```HTTPConnectionPool.ResponseCls```.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alexdias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

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* 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

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* 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
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.340 oauth2-client 4.1.2

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Dependent Modules

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

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

httplib2 - MIT License
1.341 busybox 1.31.1-r8

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

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1.342 python-setuptools 39.0.1
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1.343 e2fsprogs 1.43.4-2+deb9u2
1.343.1 Available under license:
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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))
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

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
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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.

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

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That's all there is to it!
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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Written by: Philip Hazel
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1.348 kerberos 1.16 2ubuntu0.1

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

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
    lib/gssapi/mechglue/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
and the initial implementation of incremental propagation, including
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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import sys
import re

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

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

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        if not code_seen:
            warn(fname, ln, 'License after code')
        if not nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*- and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^\*[^\^]*\([^\^]*\)\([^\^]*\)\[^\^]*\$\^\*$', lines[ln])
    if m:
if m.group(1) != fname:
    warn(fname, ln, 'Wrong filename in comment')
ln += 1

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

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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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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// 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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1.358 gophercloud v0.1.0

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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"
    }

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:

```
```
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
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 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) {

handle.DeleteResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource deletion.

```go
define DeleteResourceSuccessfully (t *testing.T) {
    http.HandleFunc(`/resources/9fe1d3`, func (w http.ResponseWriter, r *http.Request) {
        if r.Method == "DELETE" {
            W.WriteHeader(http.StatusNoContent)
        }
    })
}
```

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource update.

```go
define UpdateResourceSuccessfully (t *testing.T) {
    http.HandleFunc(`/resources/9fe1d3`, func (w http.ResponseWriter, r *http.Request) {
        if r.Method == "PATCH" {
            th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
            th.TestJSONRequest(t, r, UpdateRequest)
            w.WriteHeader(http.StatusOK)
            fmt.Fprintf(w, UpdateResult)
        }
    })
}
```

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"
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)

        actual, err := resources.Create(client.ServiceClient(), resource).
        th.AssertNoErr(t, err)
    }
```go
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)
}
```

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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 start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.
Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* 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/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

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).

1.359 util-linux 2.32.1-22.el8

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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"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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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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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.374 libunwind 1.2.1 8

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a) The work must carry prominent notices stating that you modified
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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
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1.379 netplan-io 0.99 0ubuntu3~18.04.4
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1.380 curl 7.58.0-2ubuntu3.14
1.380.1 Available under license :

License Mixing

```
libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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1.381 python-fasteners 0.12.0-3

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1.382 zap v1.16.0
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1.383 openssl 1.1.1d

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1.396 gnutls 3.5.18-1ubuntu1
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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Protocol Buffers for Go with Gadgets

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Gocheck - A rich testing framework for Go

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

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   func initBsdClause2() {
       Licenses["freebsd"] = License{
           Name: "Simplified BSD License",
           PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                  "2 clause bsd", "simplified bsd license"},
   }
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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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  Licenses["gpl2"] = License{
    Name:            "GNU General Public License 2.0",
    PossibleMatches: ["gpl2", "gnu gpl2", "gplv2"],
    Header: `This program is free software; you can redistribute it and/or
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`
}
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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
    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 ""
}

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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                 (at your option) any later version.

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package cmd

func init() {
    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 it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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package cmd

func initApache2() {
Licenses["apache"] = License{
    Name: "Apache 2.0",
    PossibleMatches: []string{"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.
    You may obtain a copy of the License at
    `}
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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 copies of the Software, and to permit persons to whom the Software is
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
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END OF TERMS AND CONDITIONS

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

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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A "covered work" means either the unmodified Program or a work based on the Program.

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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A compilation of a covered work with other separate and independent
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beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.405 debconf 1.5.66ubuntu1

1.406 xml-apis 1.3.04
1.406.1 Available under license:

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1.408 pysmi 0.2.2-1
1.408.1 Available under license:
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 Metadata-Version: 1.1
 Name: pysmi
 Version: 0.2.2
 Summary: SNMP SMI/MIB Parser
 Home-page: https://github.com/etingof/pysmi
SNMP SMI compiler

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

.. toctree::
   :maxdepth: 2

The PySMI library and tools are designed to parse, verify and transform
\`SNMP SMI <https://en.wikipedia.org/wiki/Management_information_base>`__ MIB
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Documentation
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Source code & Changelog
-----------------------

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Download & Install
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Changes
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-------

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* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/tests/test_zipreader.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/reader/__init__.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/smi.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/tests/test_objecttype_smiv2_pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/reader/localfile.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/dialect.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/url.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/__init__.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/borrower/__init__.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/searcher/pyfile.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/searcher/pypackage.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/borrower/base.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/borrower/anyfile.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/reader/___init___py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/smiv2.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/tests/test_objtype_smiv2_pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/tests/test_smiv1_smiv2_pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/tests/test_notificationgroup_smiv2_pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/borrower/anyfile.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/compat.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/smiv1compat.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2tests/test_typedeclaration_smiv2_pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/compat.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/reader/callback.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/parser/smiv2.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/borrower/base.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/lexer/base.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/codegen/pysnmp.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/writer/__init__.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/writer/callback.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/writer/__init__.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/mibinfo.py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/pysmi/writer/___init___py
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/setup.py
No license file was found, but licenses were detected in source scan.

SNMP MIB parser
PySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](https://github.com/etingof/pysnmp) modules can be generated from ASN.1 MIBs.

Features
--------

* Understands SMIV1, SMIV2 and de-facto SMI dialects
* Turns MIBs into pysnmp classes and JSON documents
* Maintains an index of MIB objects over many MIB modules
* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
* 100% Python, works with Python 2.4 up to Python 3.6

Rendered PySMI documentation can be found at [pysmi site](http://pysmi.sf.net).

How to use PySMI
----------------

If you are using pysnmp, you might never notice pysmi presence - pysnmp calls pysmi for MIB download and compilation behind the scenes (you can still can do that manually by invoking *mibdump.py* tool).

To turn ASN.1 MIB into a JSON document, call *mibdump.py* tool like this:

```bash
$ mibdump.py --generate-mib-texts --destination-format json IF-MIB Source MIB repositories: file:///usr/share/snmp/mibs, http://mibs.snmplabs.com/asn1/@mib@
Borrow missing/failed MIBs from: http://mibs.snmplabs.com/json/fulltexts/@mib@
Existing/compiled MIB locations:
Compiled MIBs destination directory: .
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
```
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB
Pre-compiled MIBs borrowed:
Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC
Missing source MIBs:
Ignored MIBs:
Failed MIBs:

JSON document build from
[IF-MIB module](http://mibs.snmplabs.com/asn1/IF-MIB)
would hold information such as:

```json
...

"ifMIB": {
  "name": "ifMIB",
  "oid": "1.3.6.1.2.1.31",
  "class": "moduleidentity",
  "revisions": [
    "2007-02-15 00:00",
    "1996-02-28 21:55",
    "1993-11-08 21:55"
  ],
},
...

"ifTestTable": {
  "name": "ifTestTable",
  "oid": "1.3.6.1.2.1.31.1.3",
  "nodetype": "table",
  "class": "objecttype",
  "maxaccess": "not-accessible"
},

"ifTestEntry": {
  "name": "ifTestEntry",
  "oid": "1.3.6.1.2.1.31.1.3.1",
  "nodetype": "row",
  "class": "objecttype",
  "maxaccess": "not-accessible",
  "augmention": {
    "name": "ifTestEntry",
    "module": "IF-MIB",
  }
}
```
In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](http://mibs.snmplabs.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files. For example, JSON index for [IP-MIB.json](http://mibs.snmplabs.com/json/asn1/IP-MIB), [TCP-MIB.json](http://mibs.snmplabs.com/json/asn1/TCP-MIB) and [UDP-MIB.json](http://mibs.snmplabs.com/json/asn1/UDP-MIB) modules would keep information like this:

```json
...
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [ 
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [ 
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [ 
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [ 
      "IP-MIB"
    ]
  }
}
```
With this example, *compliance* and *identity* keys point to
*MODULE-COMPLIANCE* and *MODULE-IDENTITY* MIB objects, *oids*
list top-level OIDs branches defined in MIB modules. Full index
build over thousands of MIBs could be seen
[here](http://mibs.snmplabs.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP, FTP sites
or local directories. You could configure any MIB source available to you (including

How to get PySMI

----------

The pysmi package is distributed under terms and conditions of 2-clause
BSD [license](http://pyasn1.sourceforge.net/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pysmi).

You could `pip install pysmi` or download it from [PyPI](https://pypi.python.org/pypi/pysmi).
If something does not work as expected, [open an issue](https://github.com/etingof/pysmi/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask).

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Found in path(s):
* /opt/cola/permits/1137147999_1614022922.71/0/pysmi-0-2-2-orig-1-tar-gz/pysmi-0.2.2/README.md

### 1.409 libxmu 1.1.2-2

#### 1.409.1 Available under license:

No license file was found, but licenses were detected in source scan.

```bash
--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR="pwd"
+cd $srcdir
+
+autoreconf -v --install || exit 1
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@"
+fi

--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+[ Andreas Boll ]
+* Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+  when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+[ Julien Cristau ]
+* Remove Cyril from Uploading.
+* Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+-- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
```
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+  * New upstream release.
+  * Add ${misc:Depends} to libxmu-headers.
+  * Use /usr/share/quilt/quilt.make instead of xsfb for patching.
+  * Add build-{arch,indep} debian/rules targets.
+  * Bump debhelper compat level from 5 to 7.
+
+  -- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
  * New upstream release.
  * Don't require (fake)root for debian/rules clean.
  * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per configure.ac.
  * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call from debian/rules.
  * Remove David Nusinow from Upolders.
  * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+  -- Julien Cristau <jcristau@debian.org>  Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low
+
  * Build for multiarch.
+
+  -- Steve Langasek <vorlon@debian.org>  Fri, 21 Oct 2011 14:47:59 -0700
+
+libxmu (2:1.1.0-2) unstable; urgency=low
+
  [ Christopher James Halse Rogers ]
  * debian/patches/01_dont_export_private_deps.patch:
    + The Xmu.h header uses libXt symbols in a #define, so libXt is not a private dep. With binutils-gold, the indirect dependency on Xt is not considered when linking with Xmu so this causes build failures.
+
  [ Julien Cristau ]
  * Drop Pre-Depends on x11-common, only needed for upgrades from the monolith.
+
+  -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200
+
+libxmu (2:1.1.0-1) unstable; urgency=low
+
  * New upstream release.
  * Bump xutils-dev build-dep for new macros.
* Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
* Pass --with-xmlto and --without-fop (we want html and txt only).
* Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  libxmu-headers.install file.
* Remove the hardcoded path to the X logo in the Xmu.html file.
* Kill *.xml in the doc directory, no point in shipping them.
* Switch from --list-missing to --fail-missing for additional safety.

-- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100

+libxmu (2:1.0.5-2) unstable; urgency=high

  [ Julien Cristau ]
  * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
    good reason. Thanks, Colin Watson!
  * Remove myself from Uploaders
  * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
    libxmuu1-db (Closes: #594500). Thanks to Luca Falavigna for the report.

  [ Cyril Brulebois ]
  * Add myself to Uploaders.
  * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
    for the report.

  -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200

  +libxmu (2:1.0.5-1) unstable; urgency=low

  [ Timo Aaltonen ]
  * New upstream release.
  * Fix 64bit support (closes: #521887)

  [ Julien Cristau ]
  * Bump Standards-Version to 3.8.3.

  -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100

  +libxmu (2:1.0.4-2) unstable; urgency=low

  [ Julien Cristau ]
  * Drop -1 debian revisions from build-deps.
  * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmumu-dev don't need a
    dependency on x11-common.
  * Build libxmumu-headers in binary-indep instead of binary-arch
    (closes: #486418). Thanks, Martin Koepp!
  * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
  * Handle parallel builds.

  -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100

  +libxmu (2:1.0.5-2) unstable; urgency=high

  [ Julien Cristau ]
  * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
    good reason. Thanks, Colin Watson!
  * Remove myself from Uploaders
  * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
    libxmumu1-db (Closes: #594500). Thanks to Luca Falavigna for the report.

  [ Cyril Brulebois ]
  * Add myself to Uploaders.
  * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
    for the report.

  -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200

  +libxmu (2:1.0.5-1) unstable; urgency=low

  [ Timo Aaltonen ]
  * New upstream release.
  * Fix 64bit support (closes: #521887)

  [ Julien Cristau ]
  * Bump Standards-Version to 3.8.3.

  -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100

  +libxmu (2:1.0.4-2) unstable; urgency=low

  [ Julien Cristau ]
  * Drop -1 debian revisions from build-deps.
  * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmumu-dev don't need a
    dependency on x11-common.
  * Build libxmumu-headers in binary-indep instead of binary-arch
    (closes: #486418). Thanks, Martin Koepp!
  * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
  * Handle parallel builds.

  -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100

  +libxmu (2:1.0.5-2) unstable; urgency=high

  [ Julien Cristau ]
  * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
    good reason. Thanks, Colin Watson!
  * Remove myself from Uploaders
  * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
    libxmumu1-db (Closes: #594500). Thanks to Luca Falavigna for the report.

  [ Cyril Brulebois ]
  * Add myself to Uploaders.
  * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
    for the report.

  -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200

  +libxmu (2:1.0.5-1) unstable; urgency=low

  [ Timo Aaltonen ]
  * New upstream release.
  * Fix 64bit support (closes: #521887)

  [ Julien Cristau ]
  * Bump Standards-Version to 3.8.3.
+ [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
+
+ libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ * Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These
+ * dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their
+ * permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/
+
+ [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+
+ libxmu (1:1.0.3-1) unstable; urgency=low
+
+ [ Andres Salomon ]
+ * Test for obj-$(DEB_BUILD_GNU_TYPE) before creating it during build;
+ * idempotency fix.
+
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+ + -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+ +libxmu (1:1.0.2-1) experimental; urgency=low
+ + * New upstream release
+ + * Bump debhelper compat to 5
+ + * Run dh_install with --list-missing
+ + * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+ + to match the rest of Debian and shut lintian up
+ + * Bump standards version to 3.7.2.0
+ + + -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+ +libxmu (1:1.0.1-3) unstable; urgency=low
+ + + * Reorder makeshlib command in rules file so that ldconfig is run
+ + properly. Thanks Drew Parsons and Steve Langasek.
+ + + -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+ +libxmu (1:1.0.1-2) unstable; urgency=low
+ + * Upload to unstable
+ + + -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+ +libxmu (1:1.0.1-1) experimental; urgency=low
+ + * First upload to Debian
+ + + -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+ +libxmu (1:6.2.3-5) breezy; urgency=low
+ + * Also, libxmu-dev needs to depend on libxt-dev too.
+ + + -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000
+ +libxmu (1:6.2.3-4) breezy; urgency=low
+ + * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+ + + -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000
+ +libxmu (1:6.2.3-3) breezy; urgency=low
+ +
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ + -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+ +libxmu (1:6.2.3-2) breezy; urgency=low
+ + * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+ _XOPEN_SOURCE.
+ + -- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+ +libxmu (1:6.2.3-1) breezy; urgency=low
+ + * First libxmu release.
+ + -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  * debhelper (>= 9),
+  * dh-autoreconf,
+  * libx11-dev (>= 1:0.99.2),
+  * libxt-dev (>= 1:0.99.1),
+  * libxext-dev (>= 1:0.99.1),
+  * pkg-config,
+  * quilt,
+  * automake,
+  * libtool,
+  * xutils-dev (>= 1:7.6+2),
+  * xmlto (>= 0.0.22),
+  * xorg-sgml-doctools (>= 1:1.8),
+  * w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu6-dbgsym
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu6-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
+headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmuu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/libXmu
+ .
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+ +
+Copyright 1989, 1998 The Open Group
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+Permission to use, copy, modify, distribute, and sell this software and its
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XFree86 Project.
--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
usr/lib/*/libXmu.a
usr/lib/*/libXmu.so
usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
usr/include/X11/*
usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1 @@
usr/lib/*/libXmuu.a
usr/lib/*/libXmuu.so
usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
--- a/xmu.pc.in
+++ b/xmu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
 + Name: Xmu
 + Description: Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11 xt
 + Requires.private: x11 xt xext
 + Cflags: -I$includedir
 + Libs: -L$libdir -lXmu
-diff --git a/xmuu.pc.in b/xmuu.pc.in
+diff --git a/xmuu.pc.in b/xmuu.pc.in
index 1e91ac4..72fa5f9 100644
--- a/xmuu.pc.in
+++ b/xmuu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
 + Name: Xmuu
 + Description: Mini Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11
 + Requires.private: x11
 + Cflags: -I$includedir
 + Libs: -L$libdir -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
+# Copyright 2004 Scott James Remnant <scott@netsplit.com>
+# Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+export DH_VERBOSE=1
+
+.PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+ override_dh_auto_configure:
+ dh_auto_configure -- \
+ --disable-silent-rules \
+ --docdir="${prefix}/share/doc/libxmu-headers \
+ --with-xmlto \
+ --without-fop 
+
+ override_dh_auto_install:
+ dh_auto_install
+ find debian/tmp/usr/share/doc/libxmu-headers -name '*\.xml' -delete 
+
+ override_dh_install-arch:
+ dh_install --fail-missing -Xusr/include -X.la 
+
+ override_dh_strip:
+ dh_strip -Nlibxmu6 -Nlibxmuu1 
+ dh_strip -plibxmu6 --dbg-package=libxmu6-db 
+ dh_strip -plibxmuu1 --dbg-package=libxmuu1-db 
+++ libxmu-1.1.2.orig/debian/watch 
+++ libxmu-1.1.2/debian/watch 
@@ -0,0 +1,3 @@ 
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu 
+version=3 
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\.tar\.gz 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.410 libpipeline 1.5.0-1
1.410.1 Available under license :

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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:
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the 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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facilities. This must be distributed under the terms of the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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.

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

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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
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.
This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at http://www.rfc-editor.org/info/rfc7159.
1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
The terms "object" and "array" come from the conventions of JavaScript.

JSON's design goals were for it to be minimal, portable, textual, and a subset of JavaScript.

1.1. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.
2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

\[
\text{JSON-text} = \text{ws value ws}
\]

These are the six structural characters:

- `begin-array` = \text{ws } %x5B \text{ ws ; } [ \text{ left square bracket}
- `begin-object` = \text{ws } %x7B \text{ ws ; } { \text{ left curly bracket}
- `end-array` = \text{ws } %x5D \text{ ws ; } ] \text{ right square bracket}
- `end-object` = \text{ws } %x7D \text{ ws ; } } \text{ right curly bracket}
- `name-separator` = \text{ws } %x3A \text{ ws ; } : \text{ colon}
- `value-separator` = \text{ws } %x2C \text{ ws ; } , \text{ comma}

Insignificant whitespace is allowed before or after any of the six structural characters.

\[
\text{ws} = * ( \text{Space} \text{Horizontal tab Line feed or New line Carriage return} )
\]

3. Values

A JSON value MUST be an object, array, number, or string, or one of
the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true

4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

object = begin-object [ member *( value-separator member ) ] end-object

member = string name-separator value

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling
software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

array = begin-array [ value *( value-separator value ) ] end-array

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

number = [ minus ] int [ frac ] [ exp ]

decimal-point = %x2E ; .

digit1-9 = %x31-39 ; 1-9

e = %x65 / %x45 ; e E

exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT

int = zero / ( digit1-9 *DIGIT )

minus = %x2D ; -

plus = %x2B ; +

zero = %x30 ; 0

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \[-(2^{53}+1), (2^{53})-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.

---

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).
Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark

char = unescaped / escape (  
   %x22 / ; " quotation mark U+0022  
   %x5C / ; \ reverse solidus U+005C  
   %x2F / ; / solidus U+002F  
   %x62 / ; b backspace U+0008  
   %x66 / ; f form feed U+000C  
   %x6E / ; n line feed U+000A  
   %x72 / ; r carriage return U+000D  
   %x74 / ; t tab U+0009  
   %x75 4HEXDIG ) ; uXXXX U+XXXX

escape = %x5C ; \  
quotation-mark = %x22 ; "

unescaped = %x20-21 / %x23-5B / %x5D-10FFFF
```
8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.
9. Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#,
Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.

12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text
could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.

13. Examples

This is a JSON object:

```
{
    "Image": {
        "Width": 800,
        "Height": 600,
        "Title": "View from 15th Floor",
        "Thumbnail": {
            "Url": "http://www.example.com/image/481989943",
            "Height": 125,
            "Width": 100
        },
        "Animated": false,
        "IDs": [116, 943, 234, 38793]
    }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
    {
        "Image": {
            "Width": 800,
            "Height": 600,
            "Title": "View from 15th Floor",
            "Thumbnail": {
                "Url": "http://www.example.com/image/481989943",
                "Height": 125,
                "Width": 100
            },
            "Animated": false,
            "IDs": [116, 943, 234, 38793]
        }
    },
    {
        "Image": {
            "Width": 800,
            "Height": 600,
            "Title": "View from 15th Floor",
            "Thumbnail": {
                "Url": "http://www.example.com/image/481989943",
                "Height": 125,
                "Width": 100
            },
            "Animated": false,
            "IDs": [116, 943, 234, 38793]
        }
    }
]
```
Here are three small JSON texts containing only values:

"Hello world!"

42

true

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.
15.1. Normative References


15.2. Informative References


Bray Standards Track [Page 13]

RFC 7159 JSON March 2014


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Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
- Clarified the absence of a requirement that values in an array be of the same JSON type.
- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".
- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.
- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.
- Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and "String Comparison".
- Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.
- Updated and tidied the "IANA Considerations" section.
- Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.
Appled erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

- Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

- Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

- Changed "100" to 100 and added a boolean field, both in the first example.

- Added examples of JSON texts with simple values, neither objects nor arrays.

- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

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No license file was found, but licenses were detected in source scan.

* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt

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# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibily to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of
JSON.dump_default_options
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing
  `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io>
  and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre
  Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with
  -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make
  serialize `some_attribute`, `JSON::GenericObject`
  work in Rails active models for convenient `SomeModel#some_attribute.foo.bar`
  access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and
  `JSON::GenericObject`. It should not be possible to create additions unless
  explicitly requested by setting the create_additions argument to true or
  using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to
  be automatically deserialised, this has to be explicitly enabled by
  setting
    JSON::GenericObject.json_creatable = true
  as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155
  provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to
  jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix https://github.com/flori/json/issues#issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class'/array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load("")` return nil as well to make mysql text columns (default to `""`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails` serialize method. Just use:
  ```ruby
  serialize :value, JSON
  ```
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This
should reduce problems with `to_json` method definitions that only have one
argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)
* Fixes crashes described in http://github.com/flori/json/issues/closed#issue/21 and
  http://github.com/flori/json/issues/closed#issue/23

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/issue/20 reported by
electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with
  Microsoft Visual C possible again.
* Applied patch from devrandom <c81.github@niftybox.net> in order to allow building of
  json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory
  leak, which is fixed in this release.
* Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM
  being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified
directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Trigger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State[]` method which returns an attribute's value in order to
  increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible
  to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of
  strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE,
and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.

* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of `?/` characters in the generator's output. The parsers aren't affected by this change. Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrigos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for
data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.

* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.

* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemirx.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object `{ ... }` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\r\n`), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases `generate` and `pretty_generate` of `unparse` and `pretty_unparse`.
* Fixed a test case.

* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (`/`-characters), that was reported by
Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/CHANGES.md
No license file was found, but licenses were detected in source scan.

/* Portions of the Selector class are derived from Jack Slocum’s DomQuery.
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/data/prototype.js
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.java
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/GeneratorService.java
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1.416 goprotobuf v1.3.2

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

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

That's all there is to it!

1.426 object-model 1.0.27

1.426.1 Available under license :

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1.429 python-jsonpointer 1.10-1
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1.430 pycrypto 2.6.1-8ubuntu2

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Last updated: 2009-02-28

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=== EOF ===

1.431 kustomize v2.0.3+incompatible

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1.432 jackson-dataformat-yaml 2.11.2
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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.439 libunistring 0.9.9 0ubuntu2

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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lib/inet_ntop.c

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Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Kavonen, Jorma
Kazik, Duan
Kelenen, Gbor
Koir, Klemen
Koizlov, Yuri
Kramer, Jakob
Krzmar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Reguiero, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

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1.457 python-colorama 0.3.7-1

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1.462 make-dfsg 4.1-9.1ubuntu1
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1.463 nghttp2 1.30.0-1ubuntu1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.464 ruby-minitest 5.10.3 1

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* /opt/ws_local/PERMITS_SQL/1013995703_1594215004.09/0/ruby-minitest-5-10-3-orig-tar-gz/minitest-
  5.10.3/README.rdoc
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Found in path(s):
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1.465 rdoc 6.0.1

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1.467 jackson-module-afterburner 2.9.10

1.467.1 Available under license :

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It is currently developed by a community of developers, as well as supported
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1.468 metrics-jersey2 4.1.12.1
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094379160_1601152052.02/0/metrics-jersey2-4-1-12-1-jar/META-INF/MANIFEST.MF

1.469 libdnf 0.35.1-9.el8_1
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    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
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// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.

type NoticeHandlerConnector struct {  
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {  
    c, err := n.Connector.Connect(ctx)  
    if err == nil {  
        SetNoticeHandler(c, n.noticeHandler)
    }
}
return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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Protocol Buffers for Go with Gadgets

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

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1.496 masterminds-semver v3.1.0

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1.498 go-openapi-jsonpointer v0.19.3

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
        traditional one-character options, and GNU'ish
        --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu/pub/Linux/libs
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1.508 webrick 1.4.2
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1.511 zstd 1.3.3+dfsg 2ubuntu1

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1.522 bsdmainutils 11.1.2ubuntu1

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <ttheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.524 stateless4j 2.5.0

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google

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key",omitempty`  
    Name  *string `json:"name",omitempty`  
    URL   *string `json:"url",omitempty`  
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`  
    Description    *string   `json:"description",omitempty`  
    Category       *string   `json:"category",omitempty`  
    Implementation *string   `json:"implementation",omitempty`  
    Required       *[]string `json:"required",omitempty"`  
    Permitted      *[]string `json:"permitted",omitempty"`  
    Forbidden      *[]string `json:"forbidden",omitempty"`  
    Body           *string   `json:"body",omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}
// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[
            {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}
func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `("key":"mit","name":"MIT")`)  
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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1.532 libfastjson 0.99.8 2

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google

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key        *string `json:"key",omitempty`
    Name       *string `json:"name",omitempty`
    URL        *string `json:"url",omitempty`
    HTMLURL    *string `json:"html_url",omitempty`
    Featured   *bool  `json:"featured",omitempty`
    Description *string `json:"description",omitempty`
    Category   *string `json:"category",omitempty`
    Implementation *string `json:"implementation",omitempty`
    Required   *[]string `json:"required",omitempty`
    Permitted  *[]string `json:"permitted",omitempty`
    Forbidden  *[]string `json:"forbidden",omitempty`
    Body       *string `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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

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package github

import (
    "fmt"
)
func TestLicensesService_List(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `[
      {
        "key": "mit",
        "name": "MIT",
        "url": "https://api.github.com/licenses/mit"
      }
    ]`)  
  })

  licenses, _, err := client.Licenses.List()
  if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
  }

  want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
  }}
  if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
  }
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `{
      "key": "mit",
      "name": "MIT"
    }`)  
  })

  license, _, err := client.Licenses.Get("mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }

  want := &License{Key: String("mit"), Name: String("MIT")}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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

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

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

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

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

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

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

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

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

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1.535 goprotobuf v1.4.2

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## 1.536 go-humanize 3.2.17+dfsg-1

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## 1.537 giflib 5.2.1

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1.538 base-files 10.1ubuntu2.11
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[This is the first released version of the library GPL. It is
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.539 maorfr-helm-plugin-utils v0.0.0-20200827170302-51b70049c73f

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1.540 metrics-health-checks 4.1.12.1

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1.541 coreutils 8.30-7.el8_2.1

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1.545 incremental 16.10.1-2.ph2
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1.547 typing-extensions 3.10.0.2

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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.cni.rieston.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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Found in path(s):
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.550 monotonic 1.0

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

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

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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c) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
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1.562 openssh 7.6p1 4ubuntu0.3
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/* OPENBSD ORIGINAL: sys/sys/poll.h */
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLRaise 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDND 0x0040
#define POLLNORM POLLRDND
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* *
* Optimised ANSI C code for the Rijndael cipher (now AES)
* *
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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1.565 libssh 0.9.0-4.el8

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.571 jetty-servlet 9.4.31.v20200723

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* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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1.575 go-sysconf v0.3.5

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Argon2 reference source code package - reference C implementations

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o  
23-June-2007

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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
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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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former contains code derived from the library, while the latter only
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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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The "Library", below, refers to any such software library or work
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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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.

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

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

That's all there is to it!
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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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DAMAGE.

This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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1.594 openssl 1.1.1k

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1.595 slf4j 1.7.30

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1.596 tcp-dump 4.9.3 0ubuntu0.18.04.1

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1.599 x-net v0.0.0-20191004110552-
13f9640d40b9

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1.600 d2g-dhcp4client v1.0.0

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.605 e2fsprogs 1.44.1 1ubuntu1.3

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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
23-June-2007

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That's all there is to it!
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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

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

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

$(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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

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1.606 ecj 3.24.0

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1.607 jetty-util 9.4.31.v20200723

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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1.608 man-db 2.8.3 2ubuntu0.1

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@c ispell-local-pdict: "ispell-dict"
@c End:

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Version 3, 29 June 2007

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1.611 logrus v1.8.1

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1.612 python-certifi 2018.1.18-2

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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:
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.613 busybox 1.31.1-r9
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.615 ply 3.11-1

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Metadata-Version: 1.1
Name: ply
Version: 3.11
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description-Content-Type: UNKNOWN

Description:
PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

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# PLY (Python Lex-Yacc) Version 3.11


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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
===========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
=============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========= More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack
Acknowledgments
==================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#

tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)

t_PLUS     = r'\+'  
t_MINUS    = r'-'  
t_TIMES    = r'\*'  
t_DIVIDE   = r'/'  
t_EQUALS   = r'='  
t_LPAREN   = r'('  
t_RPAREN   = r')'  
t_NAME     = r'[a-zA-Z_][a-zA-Z0-9_]*'
```

# Tokens

t_PLUS     = r'\+'  
t_MINUS    = r'-'  
t_TIMES    = r'\*'  
t_DIVIDE   = r'/'  
t_EQUALS   = r'='  
t_LPAREN   = r'('  
t_RPAREN   = r')'  
t_NAME     = r'[a-zA-Z_][a-zA-Z0-9_]*'
def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters
_t_ignore = " 
"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("
")

def t_error(t):
    print("Illegal character \%s" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lexer

# Precedence rules for the arithmetic operators
precedence = (
    ('left', 'PLUS', 'MINUS'),
    ('left', 'TIMES', 'DIVIDE'),
    ('right', 'UMINUS'),
)

# dictionary of names (for storing variables)
names = {}

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"
Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.616 python-ipaddress 1.0.17-1

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1.617 distlib 0.2.6

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

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- Anthony Baxter
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1.620 pycrypto 2.6.1
1.620.1 Available under license :

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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1.621 gcc-defaults 7.4.0 1ubuntu2.3

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `..'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE)    
  fprintf (FILE, "\t.space \n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)    
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)    
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)    
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\    
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

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@c man end
@end ignore

@c This file is intended to be included in another file.

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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Standard preamble:

=======================================================================
| de Sp |
| PP |
| .if |
| sp |
| .5v |
| .if |
| n sp |
| .begin verbatim text |
| ft |
| CW |
| .nf |
| \$1 |
| .end verbatim text |
| ft |
| R |
| .fi |
| .set up some character translations and predefined strings. |
| \*(- will |
| \*( will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left |
| \*(R" will give a right double quote. \*(C+ will |
| \*( will give a nicer C++. Capital omega is used to do unbreakable dashes and |
| \*( go therefore won't be available. \*(C’ and \*(C’ expand to ‘‘ in nroff, |
| \*( nothing in troff, for use with C<<. |
| .tr |
| \*(-W- |
| .ds |
| C+ |
| C\\v'-.1v'\\h'-.1p'\\s-2+\\h'-.1p'+\\s0\\v'\\1v'\\h'-.1p' |
| .ie |
| n |
| .begin verbatim text |
| ft |
| C+ |
| PI |
| .ds |
| L" |
| .ds |
| R" |
| .ds |
| C’ |
| .ds |
| C’ |
| ‘br\} |
| .end verbatim text |
| n |
| .begin verbatim text |
| ft |
| PI |
| .ds |
| L" |
| .ds |
| R" |
| .ds |
| C’ |
| .ds |
| C’ |
| ‘br\} |
| .end verbatim text |
Escape single quotes in literal strings from groff's Unicode transform.

\ie \n\{.g .ds Aq \(a\q
\el .ds Aq' \n\}
\" Escape single quotes in literal strings from groff's Unicode transform.

\ie \n\{.g .ds Aq \(a\q
\el .ds Aq'
\" If the F register is turned on, we'll generate index entries on stderr for
\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
\" entries marked with X<> in POD. Of course, you'll have to process the
\" output yourself in some meaningful fashion.
\" Avoid warning from groff about undefined register 'F'.
\de IX
.. 
.. nr rF 0
.. if \n\{.g .if rF .nr rF 1
.. if \n(rF:\n(g==0)) \{
.. if \nF \{
.. de IX
.. tm Index:\$1\n%t"\$2"
.. if \nF==2 \{
.. nr % 0
.. nr F 2
.. \}
.. \}
.. \}
.. rr rF
\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\" Fear. Run. Save yourself. No user-serviceable parts.
\" fudge factors for nroff and troff
.. if n \{
.. ds #H 0
.. ds #V .8m
.. ds #F .3m
.. ds #[ \f1
.. ds #] \fP
\}
.. if t \{
.. ds #H ((1u-\n(\n(.fu%2u))*13m)
.. ds #V .6m
.. ds #F 0
.. ds #[ \&
.. ds #] \&
\"
. " simple accents for nroff and troff
.if n \{
  . ds \`
  . ds \`
  . ds ^ \`
  . ds , \`
  . ds ~ ~
  . ds / \`
  \}
.if t \{
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    .ds D- D\(hy 
    .ds th \(bp 
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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!
#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
        ''])

    def filter(self, path):
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^\t')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'itoptions.m4',
    'ltsgar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',

)
if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9][?\[-0-9,.,\s]+\s+and\s+]*[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-.]+'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '(\[Cc\]opyright'  
    '\[[Cc\]opyright\s+\([Cc]\)]')  
    '\[[Cc\]opyright\s+%'  
    '\[[Cc\]opyright\s+&copy;'  
    '\[[Cc\]opyright\s+@copyright\]'  
    '[copyright = u\]'  
    '\[@set\s+copyright[\w-]+\]')

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*(?:' + ranges + ',?  
'|@value\{[^
]*\})\s*)'  
# 3: 'by ', if used
'(by\s\+)\?'  
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\( + name + (?:\s? + name +\)\)\)?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
```python
index = holder.find (' ')  
while index >= 0:  
    self.holder_prefixes.add (holder[:index])  
    index = holder.find ('', index + 1)

def add_external_author (self, holder):  
    self.holders[holder] = None

class BadYear():  
    def __init__ (self, year):  
        self.year = year

    def __str__ (self):  
        return 'unrecognised year: ' + self.year

def parse_year (self, string):  
    year = int (string)  
    if len (string) == 2:  
        if year > 70:  
            return year + 1900  
    elif len (string) == 4:  
        return year  
    raise self.BadYear (string)

def year_range (self, years):  
    year_list = [self.parse_year (year)  
                 for year in self.year_re.findall (years)]  
    assert len (year_list) > 0  
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):  
    self.use_quilt = use_quilt

def include_year (self, year):  
    assert not self.max_year  
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):  
    # Leave texinfo variables alone.  
    if years.startswith ('@value'):  
        return years  
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.  
    if self.max_year and not filter.is_fossilised_file (dir, filename):  
        max_year = max (max_year, self.max_year)
```
# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break

        # Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' '))
+ canon_form + self.separator
+ line[match.end (2):]

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                        file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                    'unrecognised copyright: %s'


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% line.strip()
  lines.append (line)
  line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
  tmp_pathname = pathname + '.tmp'
  with open (tmp_pathname, 'w') as file:
    for line in lines:
      file.write (line)
  os.fchmod (file.fileno(), mode)
  if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
  os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
  for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
      if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]
    # Handle the files in this directory.
    for filename in filenames:
      if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
      else:
        self.process_file (dir, filename, filter)

class CmdLine:
  def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

  def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
self.option Handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):  
    self.dirs.append ((dir, filter))

def o_help (self, option = None):  
    sys.stdout.write ('Usage: %s [options] dir1 dir2..\n\n'  
        'Options:\n% % sys.argv[0])
    format = ' %-15s %s\n'  
    for (what, help) in self.option_help:  
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:  
        i += 1
        if i % 3 == 0 or i == len (self.dirs):  
            sys.stdout.write (dir + '\n')
        else:  
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):  
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):  
    self.copyright.include_year (time.localtime().tm_year)

def main (self):  
    for arg in sys.argv[1:]:  
        if arg[:1] != '-':  
            self.chosen_dirs.append (arg)
        elif arg in self.option Handlers:  
            self.option Handlers[arg] (arg)
        else:  
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():  
        if len (self.chosen_dirs) == 0:  
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:  
            self.o_help ()
        else:  
            for chosen_dir in self.chosen_dirs:  
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:  
                    if (dir + os.sep).startswith (canon_dir):
count += 1
    self.copyright.process_tree (dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: '
                       + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
            ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

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

        def skip_file (self, dir, filename):
            # g++.niklas/README contains historical copyright information
            # and isn't updated.
            if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
                return True
            # Similarly params/README.
            if filename == 'README' and os.path.basename (dir) == 'params':
                return True
            return GenericFilter.skip_file (self, dir, filename)
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',
            # The testsuite data files shouldn't be changed.
            'data',
            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')

# libcilkrts is imported from upstream.
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecrement')

# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')

# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')

# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')

# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecrement',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]
GCCmdLine().main()
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1.625 python-ldap 3.0.0-1ubuntu0.1

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1.627 packaging 16.8

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
           traditional one-character options, and GNU'ish
           --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: unsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
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### Constant-time SSSE3 AES core implementation.

### version 0.1

### By Mike Hamburg (Stanford University), 2009

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**1.638 libpsl 0.19.1-5build1**

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`
    Name *string `json:"name",omitempty`
    URL  *string `json:"url",omitempty`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured",omitempty`
    Description    *string   `json:"description",omitempty`
    Category       *string   `json:"category",omitempty`
    Implementation *string   `json:"implementation",omitempty`
    Required       *[]string `json:"required",omitempty`
    Permitted      *[]string `json:"permitted",omitempty`
    Forbidden      *[]string `json:"forbidden",omitempty`
    Body           *string   `json:"body",omitempty`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
    
}
return nil, resp, err
}

return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)

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want := []License{License{
  Key: String("mit"),
  Name: String("MIT"),
  URL: String("https://api.github.com/licenses/mit"),
}}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprint(w, `{"key":"mit","name":"MIT"}
  })

  license, _, err := client.Licenses.Get("mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }

  want := &License{Key: String("mit"), Name: String("MIT"))}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }

  want := &License{Key: String("mit"), Name: String("MIT")}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }

  func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
  }

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1.650 enum34 1.1.6-2

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

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1.659 pkg-config 0.29.1 0ubuntu2

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1.662 pyjwt 1.5.3

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The End

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Lato font family
Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).
REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.

# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems) except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Ssplit between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

Found in path(s):
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## Source Code

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google

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key`,omitempty`"
    Name *string `json:"name`,omitempty`"
    URL  *string `json:"url`,omitempty`"
    HTMLURL *string `json:"html_url`,omitempty`"
    Featured *bool `json:"featured`,omitempty`"
    Description *string `json:"description`,omitempty`"
    Category *string `json:"category`,omitempty`"
    Implementation *string `json:"implementation`,omitempty`"
    Required []string `json:"required`,omitempty`"
    Permitted []string `json:"permitted`,omitempty`"
    Forbidden []string `json:"forbidden`,omitempty`"
    Body  *string `json:"body`,omitempty`"
}

func (l License) String() string {
    return Stringify(l)
// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }
    return *licenses, resp, err
}

// Fetch extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}

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import: ../../../../fossene/db/schema/thing.yml

fields:
    site: string

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

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `[
            {
                "key": "mit",
                "name": "MIT",
                "url": "https://api.github.com/licenses/mit"
            }
        ]`)
    })

    licenses, _, err := client.Licenses.List() 
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key: String("mit"),
        Name: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %v, want %v", licenses, want)
    }
}
}
func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})
license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}
want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.678 mime-support 3.60ubuntu1

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1.679 supervisor 3.3.1

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1.680 jwt-go v3.2.2+incompatible

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1.681 generex 1.0.2

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 */

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* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/GenerexIterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Generex.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Node.java
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1.682 libpng 1.6.34-1ubuntu0.18.04.1

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1.683 libtextwrapinperl 0.06-7.1

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1.685 x-time-rate v0.0.0-20190308202827-9d24e82272b4

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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```
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```

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```
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1.694 shared-mime-info 1.9 2

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1.697 golang-glog v0.0.0-20160126235308-23def4e6c14b

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1.698 e2fsprogs 1.44.1 1ubuntu1.1

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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
23-June-2007

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That's all there is to it!
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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/extendfs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$($(RM)) -rf pic
$($(RM)) -f $(BSD_LIB)
$($(RM)) -f ../$(BSD_LIB)

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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1.699 jackson-databind 2.11.1
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1.700 x-sync v0.0.0-20190911185100-cd5d95a43a6e

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1.701 acl 2.2.53-1.el8

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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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
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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1.707 acpid 2.0.28-1ubuntu1

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Ty Coon, President of Vice

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1.708 webencodings 0.5

1.708.1 Available under license:

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```python
from setuptools import setup, find_packages
import io
from os import path
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',  
    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 :: 2',  
        'Programming Language :: Python :: 3',  
        'Topic :: Internet :: WWW/HTTP',  
    ],
)```

packages=find_packages(),

```

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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
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* License: BSD
* 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.

---

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
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
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Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/PKG-INFO
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings.egg-info/PKG-INFO
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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 = [""

webencodings.labels

Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabes.py

LABELS = {
    "":
        labels = [
            (repr(assert_lower(label)).lstrip('u'),
             repr(encoding['name']).lstrip('u'))
```
for category in json.loads(urlopen(url).read().decode('ascii'))
for encoding in category['encodings']
for label in encoding['labels']
  max_len = max(len(label) for label, name in labels)
  parts.extend(
    '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
    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/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.709 dmidecode 3.1-1ubuntu0.1

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    # Contributions to the urllib3 project

    ## Creator & Maintainer

    * Andrey Petrov <andrey.petrov@shazow.net>

    ## Contributors

    In chronological order:

    * victor.vde <http://code.google.com/u/victor.vde/>
      * HTTPS patch (which inspired HTTPSConnectionPool)

    * erikcederstrand <http://code.google.com/u/erikcederstrand/>
      * 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

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
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* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@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>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenbeng <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when `amt=None`.
  * Added `length_remaining` to determine remaining data to be read.
  * Added `enforce_content_length` to raise exception when incorrect content-length received.
* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forceclist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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dos/config.h was generated with autoheader, which tells Autoconf to
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1.745 argparse 0.8.1

1.746 tre 0.8.0

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* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/LICENSE.rst

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Metadata-Version: 2.1
Name: Jinja2  
Version: 2.11.3  
Summary: A very fast and expressive template engine.  
Home-page: https://palletsprojects.com/p/jinja/  
Author: Armin Ronacher  
Author-email: armin.ronacher@active-4.com  
Maintainer: Pallets  
Maintainer-email: contact@palletsprojects.com  
License: BSD-3-Clause  
Project-URL: Code, https://github.com/pallets/jinja  
Description: Jinja  
=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- i18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing  
---------

Install and update using `pip`:

```bash
$ pip install -U Jinja2
```

In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
    <ul>
    {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
    {% endfor %}
    </ul>
    {% endblock %}

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
    ]

"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={":": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require=["i18n": ["Babel>=0.8"]],
entry_points=["babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]],
)

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/setup.py

1.749 containerd v1.3.4
1.749.1 Available under license :

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

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1.763 update-manager 18.04.11.13

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on Mon, 25 Oct 2004 21:49:07 +0200.

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\begin{verbatim}
\begin{localvariables}
\邑{ispell-local-pdict: "ispell-dict"}
\end{localvariables}
\end{verbatim}
```

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1.777 errors 0.9.1

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1.790 ssh-import-id 5.7 0ubuntu1.1

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1.791 clockwork v0.1.0

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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) }
```
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 [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.796 python-click 6.7-3
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1.798 jetty-http 9.4.16.v20190411

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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  jar/jersey/repackaged/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/MapMakerInternalMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/Cut.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/MapMaker.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/RegularImmutableTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/DenseImmutableTable.java
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  jar/jersey/repackaged/com/google/common/primitives/Longs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/util/concurrent/CheckedFuture.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */

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  jar/jersey/repackaged/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collect/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/repackaged/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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  */
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableMap.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/xml/package-info.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/AbstractMultimap.java
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### 1.804 python-rsa 3.4.2-1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------
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1.811 pciutils 3.5.2 1ubuntu1.1

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The package was downloaded from ftp://ftp.kernel.org/pub/software/utils/pciutils/

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1.812 fonts-ubuntu 0.83-2

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been
designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font
The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See OFL-FAQ for details.
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.
Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove “not to be sold separately” clause
9. Remove “Reserved Font Name(s)” declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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1.813 landscape-client 18.01-0ubuntu3.5

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import "fmt"

// LicensesService handles communication with the license related 
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}
// License represents an open source license.
type License struct {
    Key *string `json:"key, omitempty"`
    Name *string `json:"name, omitempty"`
    URL *string `json:"url, omitempty"`

    HTMLURL    *string `json:"html_url, omitempty"`
    Featured   *bool  `json:"featured, omitempty"`
    Description *string `json:"description, omitempty"`
    Category   *string `json:"category, omitempty"`
    Implementation *string `json:"implementation, omitempty"`
    Required   *[]string `json:"required, omitempty"`
    Permitted  *[]string `json:"permitted, omitempty"`
    Forbidden  *[]string `json:"forbidden, omitempty"`
    Body       *string `json:"body, omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, err

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
defer teardown()

mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprint(w, `[
    {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
    ]`)
})

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{
    License{
        Key: String("mit"),
        Name: String("MIT"),
        URL: String("https://api.github.com/licenses/mit"),
    }
}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{
        Key: String("mit"),
        Name: String("MIT")
    }
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}
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1.819 netcat 1.10 41.1

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1.823 constantly 15.1.0-2.ph2

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1.824 kr-fs v0.1.0

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1.828 perl 5.26.1 6ubuntu0.5

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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
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  version: 3

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

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

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

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

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

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

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

  $year;
}

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

1.829 zlib 1.2.11 r3

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1.830 govalidator v0.0.0-20200428143746-21a406dcc535

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1.831 zap v1.13.0
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1.836 bzip2 1.0.6 8.1

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1.837 google-uuid 1.1.1

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1.846 bouncycastle-fips 1.0.2

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The current Debian maintainer are maximilian attems <maks@debian.org> and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:


The Debian tree is maintained with "git" at:

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1.849 lsb 9.20170808ubuntu1

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1.852 p11-kit 0.23.9-2

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1.853 python-jsonschema 2.6.0-2

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1.854 libsemanage 2.7 2build2

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* Tim Martin
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1.857 bigdecimal 1.3.4

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```python
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 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': [  
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    }

    setup(**arguments)
```

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'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !3.4.*, !=3.5.*, !3.6',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

---

1.859 elfutils 0.176-5.el8

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1.864 shadow 4.5-1ubuntu1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/u.i.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:template name="isc.copyright.format">
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1.881 libxcb 1.13 2~ubuntu18.04

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1.882 liblocale-gettext-perl 1.07 3build2

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1.885 squashfs-tools 4.3-6ubuntu0.18.04.1

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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

The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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:

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

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Version 2.1, February 1999

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libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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This option is useful when you wish to copy part of the code of
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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
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However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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Version 2, June 1991

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
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1.920 linux-atm 2.5.1-2build1

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<one line to give the program’s name and a brief idea of what it does.>
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Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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

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

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

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

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

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

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

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

c) Accompany the work with a written offer, valid for at
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1.923 kmod 23-2

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1.930 python-defaults 3.6.7-1~18.04

1.930.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.931 goprotobuf v1.4.3

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Category       *string   `json:"category,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Required       *[]string `json:"required,omitempty"`
    Permitted      *[]string `json:"permitted,omitempty"`
    Forbidden      *[]string `json:"forbidden,omitempty"`
    Body           *string   `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    return []License{}, nil, err
}
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}

return *licenses, resp, err

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
defer teardown()

mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `[
        {"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}
    ]`)
})

licenses, _, err := client.Licenses.List()
if err != nil {
    t.Errorf("Licenses.List returned error: %v", err)
}

want := []License{License{
    Key: String("mit"),
    Name: String("MIT"),
    URL: String("https://api.github.com/licenses/mit"),
}
if !reflect.DeepEqual(licenses, want) {
    t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `"key":"mit","name":"MIT"
    `)
})

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{Key: String("mit"), Name: String("MIT")}
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}
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1.942 python-httpclient 0.9.2+dfsg-1ubuntu0.3

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-----------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.

  Please look into snprintf.c for the copyright message.
The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/.

The `grn' preprocessor, written by Barry Roithlat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/pase.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
src/include/DviChar.h
src/include/XFontName.h
src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>', e.g. `hyphen.de' or
  `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
  `frhyph.tex' (for TeX), which can be found at
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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src/base/fthash.c
src/base/md5.c
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src/bdf/bdf.c
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src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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src/gzip/zutil.h
#
src/tools/apinames.c
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp$
Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.968 screen 4.6.2-1ubuntu1.1

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Version 3, 29 June 2007

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Mail includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form

```plaintext
set folder=letters
```

in your .mailrc file. If, as in the example above, your folder directory does not begin with a '/', Mail will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is /home/person
the above example told
.i Mail
to find your folder directory in.
.b /home/person/letters .
.pp
Anywhere a file name is expected, you can use a folder name, preceded
with `+' For example, to put a message into a folder with the
.b save
command, you can use:
.(l
save +classwork
.)l
to save the current message in the
.i classwork
folder. If the
.i classwork
folder does not yet exist, it will be created. Note that messages
which are saved with the
.b save
command are automatically removed from your system mailbox.
.pp
In order to make a copy of a message in a folder without causing
that message to be removed from your system mailbox, use the
.b copy
command, which is identical in all other respects to the
.b save
command. For example,
.(l
copy +classwork
.)l
copies the current message into the
.i classwork
folder and leaves a copy in your system mailbox.
.pp
The
.b folder
command
can be used to direct
.i Mail
to the contents of a different folder.
For example,
.(l
folder +classwork
.)l
directs
.i Mail
to read the contents of the
.i classwork
folder. All of the commands that you can use on your system mailbox are also applicable to folders, including
.b type ,
.b delete ,
and
.b reply .
To inquire which folder you are currently editing, use simply:
.
folder
.
.
To list your current set of folders, use the
.b folders command.
.
To start reading one of your folders, you can use the
.b \-f option described in section 2. For example:
.
% Mail \-f +classwork
.
will cause
.i Mail
to read your
.i classwork
classwork folder without looking at your system mailbox.
This section describes the format of messages. Messages begin with a `From` line, which consists of the word `From` followed by a user name, followed by anything, followed by a date in the format returned by the `ctime` library routine described in section 3 of the Unix Programmer's Manual. A possible `ctime` format date is:

```
Tue Dec  1 10:58:23 1981
```

The `ctime` date may be optionally followed by a single space and a time zone indication, which should be three capital letters, such as PDT.

Following the `From` line are zero or more "header field" lines. Each header field line is of the form:

```
name: information
```

`name` can be anything, but only certain header fields are recognized as having any meaning. The recognized header fields are:

- `article-id`
- `bcc`
Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.
A header field can be continued onto following lines by making the first character on the following line a space or tab character.

If any headers are present, they must be followed by a blank line.
The part that follows is called the

of the message, and must be ASCII text, not containing null characters. Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).
For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters.
Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.
The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.
It should be noted that some network transport protocols enforce limits to the lengths of messages.

Mail Command	Description
-------------------------
				--------------------------------------------
t [message list] type message(s).
more [message list] read message(s), through the $PAGER
ngoto and type next message.
e [message list] edit message(s).
f [message list] give head lines of messages.
d [message list] delete message(s).
s [message list] <file> append message(s) to file.
u [message list] undelete message(s).
R [message list] reply to message sender(s).
r [message list] reply to message sender(s) and all recipients.
p [message list] print message list.
pre [message list] make messages go back to /var/mail.
m <recipient list> mail to specific recipient(s).
q quit, saving unresolved messages in mbox.
xquit, do not remove system mailbox.
hprint out active message headers.
!shell escape.
| [msglist] command pipe message(s) to shell command.
pi [msglist] command pipe message(s) to shell command.
cd [directory] chdir to directory or home if none given
fi <file> switch to file (%=system inbox, %user=user's system inbox). + searches in your folder
directory for the file.
set variable [=value] set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.

The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~commandPipe message through command.
~:command | ~_commandExecute a Mail command.
~~stringQuote a single tilde.
~.Simulate end of file on input.

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

"$OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $

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"@(#)mail1.nr8.1 (Berkeley) 6/8/93

.\sh 1 Introduction
.-\pp
 .\ Mail
 provides a simple and friendly environment for sending and receiving mail.
 It divides incoming mail into
 its constituent messages and allows the user to deal with them
 in any order. In addition, it provides a set of
 .\ ed -c
 like commands for manipulating messages and sending mail.
 .\ Mail
 offers the user simple editing capabilities to ease the composition
 of outgoing messages, as well as providing the ability to define and send
to names which address groups of users. Finally, Mail is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

This document describes how to use the Mail program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the \*UNIX\* commands. \*UNIX\* is a trademark of Bell Laboratories.

shell, the text editor, and some of the common \*UNIX\* commands. \*UNIX\* is a trademark of Bell Laboratories.

A word of explanation is in order here concerning the name Mail: the original UNIX mail program was known as /bin/mail. The BSD mail program was called Mail to differentiate it from the older mail program. /bin/mail is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as /usr/bin/mail.

In this document, we use the original name, `Mail', to refer to any of these.

Here is how messages are handled: the mail system accepts incoming messages for you from other people and collects them in a file, called your "system mailbox". When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a csh
user, you will be notified when new mail arrives if you inform
the shell of the location of your mailbox. On OpenBSD,
your system mailbox is located in the directory /var/mail
in a file with your login name. If your login name is
.q sam,
then you can make
.q csh
notify you of new mail by including the following line in your .cshrc
file:
.q(1
set mail=/var/mail/sam
.q)
When you read your mail using
.q Mail ,
it reads your system mailbox and separates that file into the
individual messages that have been sent to you. You can then
read, reply to, delete, or save these messages.
Each message is marked with its author and the date they sent it.
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" @(#)mail2.nr8.2 (Berkeley) 5/16/94
The `mail` command has two distinct usages, according to whether one wants to send or receive mail. Sending mail is simple: to send a message to a user whose login name is, say, `root`, use the shell command:

```
% mail root
```

then type your message. When you reach the end of the message, type an EOT (Control-D) at the beginning of a line, which will cause `mail` to echo an EOT and return you to the Shell. When the user you sent mail to next logs in, he will receive the message:

```
You have mail.
```

to alert him to the existence of your message.

If, while you are composing the message you decide that you do not wish to send it after all, you can abort the letter with a Control-C. Typing a single Control-C causes `mail` to print

```
(Interrupt -- one more to kill letter)
```

Typing a second Control-C causes `mail` to save your partial letter on the file `dead.letter` in your home directory and abort the letter.

Once you have sent mail to someone, there is no way to undo the act, so be careful.

The message your recipient reads will consist of the message you typed, preceded by a line telling who sent the message (your login name) and the date and time it was sent.
If you want to send the same message to several other people, you can list their login names on the command line.

Thus,

% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
<Control-D>
EOT
%
)
will send the reminder to sam, bob, and john.

If, when you log in, you see the message,

% Mail

you can read the mail by typing simply:

% Mail

will respond by typing its version number and date and then listing the messages you have waiting. Then it will type a prompt and await your command. The messages are assigned numbers starting with 1 - you refer to the messages with these numbers.

Mail keeps track of which messages are

new

(have been sent since you last read your mail) and

read

(have been read by you). New messages have an

N

next to them in the header listing and old, but unread messages have

a

next to them.

Mail keeps track of new/old and read/unread messages by putting a

header field called

Status

into your messages.

To look at a specific message, use the

type

command, which may be abbreviated to simply
	t.

For example, if you had the following messages:

%
you could examine the first message by giving the command:

```
.)l
```
type 1

which might cause

`.i Mail
to respond with, for example:

```
.)l
Message 1:
From root Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday. Don't forget!!
```

`.i Mail
commands that operate on messages take a message number as an
argument like the

`.b type
command. For these commands, there is a notion of a current
message. When you enter the

`.i Mail
program, the current message is initially the first one. Thus,
you can often omit the message number and use, for example,

```
.)l
t
```
to type the current message. As a further shorthand, you can type a message
by simply giving its message number. Hence,

```
.)l
1
```

would type the first message.

`.pp
Frequently, it is useful to read the messages in your mailbox in order,
one after another. You can read the next message in

`.i Mail
by simply typing a newline. As a special case, you can type a newline
as your first command to

`.i Mail
to type the first message.

`.pp
If, after reading a message, you wish to immediately send a reply,
you can do so with the
  .b reply
  command.
  .b Reply ,
like
  .b type ,
takes a message number as an argument.
  .i Mail
then begins a message addressed to the user who sent you the message.
You may then type in your letter in reply, followed by a <Control-D>
at the beginning of a line, as before.
  .i Mail
will type EOT, then type the ampersand prompt to indicate its readiness
to accept another command. In our example, if, after typing the
first message, you wished to reply to it, you might give the command:
  .(l
reply
   )l
  .i Mail
responds by typing:
  .(l
To: root
Subject: Re: Tuition fees
   )l
and waiting for you to enter your letter.
You are now in the message collection mode described at the beginning
of this section and
  .i Mail
will gather up your message up to a <Control-D>.
Note that it copies the subject
header from the original message. This is useful in that correspondence
about a particular matter will tend to retain the same subject heading,
making it easy to recognize. If there are other header fields in
the message, the information found will also be used.
For example, if the letter had a
  .q "To:"
header listing several recipients,
  .i Mail
would arrange to send your reply to the same people as well.
Similarly, if the original message contained a
  .q "Cc:"
(carbon copies to) field,
  .i Mail
would send your reply to
  .i those
users, too.
  .i Mail
is careful, though, not too send the message to
even if you appear in the "To:" or "Cc:" field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with Mail might look like the following:

```
reply
To: root
Subject: Tuition fees

Thanks for the reminder
EOT
&
)

```

The `reply` command is especially useful for sustaining extended conversations over the message system, with other `listening` users receiving copies of the conversation. The `reply` command can be abbreviated to `r`.

Sometimes you will receive a message that has been sent to several people and wish to reply only to the person who sent it. `Reply` replies to a message, but sends a copy to the sender only.

If you wish, while reading your mail, to send a message to someone, but not as a reply to one of your messages, you can send the message directly with the `mail` command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to `frank`, you would do:
This is to confirm our meeting next Friday at 4.

The `mail` command can be abbreviated to `m`

Normally, each message you receive is saved in the file `mbox`
in your login directory at the time you leave `Mail`

Often, however, you will not want to save a particular message you
have received because it is only of passing interest. To avoid
saving a message in `mbox`
you can delete it using the `delete` command. In our example,

```
> delete 1
```

will prevent `Mail` from saving message 1 (from root) in `mbox`

In addition to not saving deleted messages,
`Mail` will not let you type them, either. The effect is to make the message disappear altogether, along with its number. The `delete` command can be abbreviated to simply `d`

Many features of `Mail` can be tailored to your liking with the `set` command. The `set` command has two forms, depending on whether you are setting a `binary`
option or a
.valued
option.
Binary options are either on or off. For example, the
.ask
option informs
.Mail
that each time you send a message, you want it to prompt you for
a subject header, to be included in the message.
To set the
.ask
option, you would type
.(l
.set ask
.)l
.pp
Another useful
.Mail
option is
.hold.
Unless told otherwise,
.Mail
moves the messages from your system mailbox to the file
.mbox
in your home directory when you leave
.Mail.
If you want
.Mail
to keep your letters in the system mailbox instead, you can set the
.hold
option.
.pp
Valued options are values which
.Mail
uses to adapt to your tastes. For example, the
.SHELL
option tells
.Mail
which shell you like to use, and is specified by
.(l
.set SHELL=/bin/csh
.)l
for example. Note that no spaces are allowed in
."SHELL=/bin/csh."
A complete list of the
.Mail
options appears in section 5.
.pp
Another important valued option is .q crt.
If you use a fast video terminal, you will find that when you print long messages, they fly by too quickly for you to read them. With the .q crt option, you can make .i Mail print any message larger than a given number of lines by sending it through a paging program. This program is specified by the valued option \fBPAGER\fP. If \fBPAGER\fP is not set, a default paginator is used. For example, most CRT users with 24-line screens should do:

```
(set crt=24
)l
```
to paginate messages that will not fit on their screens.

In the default state, `more' (default paginator) prints a screenful of information, then types ``byte XXX'', where `XXX' represents the number of bytes paginated.

Type a space to see the next screenful.

Another adaptation to user needs that .i Mail provides is that of .i aliases . An alias is simply a name which stands for one or more real user names.

.sent to an alias is really sent to the list of real users associated with it. For example, an alias can be defined for the members of a project, so that you can send mail to the whole project by sending mail to just a single name. The .b alias command in .i Mail defines an alias. Suppose that the users in a project are named Sam, Sally, Steve, and Susan. To define an alias called .q project for them, you would use the .i Mail command:

```
(alias project sam sally steve susan
)l
```
The .b alias command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named 
.q "Bob Anderson"
had the login name 
.q anderson,
you might want to use:

.l
alias bob anderson
.l
so that you could send mail to the shorter name, 
.q bob.

While the 
.b alias 
and 
.b set commands allow you to customize 
.i Mail ,
they have the drawback that they must be retyped each time you enter 
.i Mail .
To make them more convenient to use, 
.i Mail 
always looks for two files when it is invoked. It first reads 
a system wide file 
.q /etc/mail.rc, 
then a user specific file, 
.q .mailrc, 
which is found in the user's home directory. 
The system wide file 
is maintained by the system administrator and 
contains 
.b set 
commands that are applicable to all users of the system. 
The 
.q .mailrc 
file is usually used by each user to set options the way he likes 
and define individual aliases. 
For example, my .mailrc file looks like this:

.l
set ask nosave SHELL=/bin/csh
.l
As you can see, it is possible to set many options in the same 
.b set 
command. The 
.q nosave 
option is described in section 5.

Mail aliasing is implemented
at the system-wide level
by the mail delivery
system
\texttt{sendmail}.

These aliases are stored in the file \texttt{/etc/mail/aliases} and are
accessible to all users of the system.
The lines in \texttt{/etc/mail/aliases} are of
the form:
\begin{verbatim}
> (alias: name\*<1\*>, name\*<2\*>, name\*<3\*)
\end{verbatim}
where
\begin{itemize}
  \item \texttt{alias} is the mailing list name and the
  \item \texttt{name\*<i\*>} are the members of the list. Long lists can be continued onto the next
  \item line by starting the next line with a space or tab. Remember that you
  \item must execute the command
  \item \texttt{newaliases}
  \item (as superuser)
  \item after editing \texttt{/etc/mail/aliases} since the delivery system
  \item uses an indexed file created by
  \item \texttt{newaliases}.
\end{itemize}

We have seen that
\texttt{Mail}
can be invoked with command line arguments which are people
to send the message to, or with no arguments to read mail.
Specifying the
\begin{verbatim}
\texttt{-f}
\end{verbatim}
flag on the command line causes
\texttt{Mail}
to read messages from a file other than your system mailbox.
For example, if you have a collection of messages in
the file
\texttt{letters}
you can use
\texttt{Mail}
to read them with:
\begin{verbatim}
> (l
% Mail -f letters
> l
\end{verbatim}
You can use all
the
\texttt{Mail}
commands described in this document to examine, modify, or delete
messages from your
\texttt{letters}
file, which will be rewritten when you leave
Mail
with the
quit command described below.

Since mail that you read is saved in the file
_mbox in your home directory by default, you can read
_mbox in your home directory by using simply
(l
% Mail -f
(l
Normally, messages that you examine using the
type command are saved in the file
_q mbox in your home directory if you leave
Mail with the
quit command described below.
If you wish to retain a message in your system mailbox
you can use the
preserve command to tell
Mail to leave it there.
The preserve command accepts a list of message numbers, just like
type and may be abbreviated to
pre.

Messages in your system mailbox that you do not examine are
normally retained in your system mailbox automatically.
If you wish to have such a message saved in
_mbox without reading it, you may use the
_mbox command to have them so saved. For example,
(l
mbox 2
(l in our example would cause the second message (from sam)
to be saved in 
.1 mbox 
when the 
.b quit 
command is executed. 
.b Mbox 
is also the way to direct messages to your 
.1 mbox 
file if you have set the 
.q hold 
option described above. 
.b Mbox 
can be abbreviated to 
.b mb . 
.pp 
When you have perused all the messages of interest, you can leave 
.i Mail 
with the 
.b quit 
command, which saves the messages you have typed but not deleted in the file 
.1 mbox 
in your login directory. Deleted messages are discarded irretrievably, and messages left untouched are preserved in your system mailbox so that you will see them the next time you type:
.(l 
% Mail 
).l 
The 
.b quit 
command can be abbreviated to simply 
.b q . 
.pp 
If you wish for some reason to leave 
.i Mail 
quickly without altering either your system mailbox or 
.1 mbox , 
you can type the 
.b x 
command (short for 
.b exit ), 
which will immediately return you to the Shell without changing anything. 
.pp 
If, instead, you want to execute a Shell command without leaving 
.i Mail , 
you 
can type the command preceded by an exclamation point, just as in the text editor. Thus, for instance:
.!*
!date

will print the current date without leaving
.Mail

@p
Finally, the
@b help
command is available to print out a brief summary of the
.Mail
commands, using only the single character command abbreviations.
$OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp$

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This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Along with

- `type`
- `delete`

described in section 2, there is the

- `from`

command, which prints the message headers associated with the message list passed to it.

The

- `from`

command is particularly useful in conjunction with some of the message list features described below.
A "message list" consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters
\[ ^, ., \$ \]
to specify the first relevant, current, or last relevant message, respectively.

Relevant here means, for most commands
\[ "not deleted" \] and
\[ "deleted" \] for the undelete command.

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash. Thus, to print the first four messages, use
\[ type 1\-4 \] and to print all the messages from the current message to the last message, use
\[ type .\-$ \]

A name is a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by root, do
\[ type root \]
As a shorthand notation, you can specify simply
.q *
to get every
.i relevant
(same sense)
message. Thus,
.(l
type *
).(l
prints all undeleted messages,
.(l
delete *
).(l
deletes all undeleted messages, and
.(l
undelete *
).(l
undeletes all deleted messages.

You can search for the presence of a word in subject lines with
.b / .
For example, to print the headers of all messages that contain the
word
.q PASCAL,
do:
.(l
from /pascal
).(l
Note that subject searching ignores upper/lower case differences.

This section describes all the
.i Mail
commands available when
receiving mail.
.i p "/MB\-\fP\"
The
.rb \-
classical command goes to the previous message and prints it. The
.rb \-
classical command may be given a decimal number
.i n
as an argument, in which case the
.i n th
previous message is gone to and printed.
.i p "/MB?\fP\"
Prints a brief summary of commands.
Used to preface a command to be executed by the shell.

Like

```
%R
```

but also print out ignored header fields. See also

```
%BPrint
%BIgnore
%Bretain
```

`%BPrint` can be abbreviated to `%Bp`.

Note the capital `%BR` in the name.

Frame a reply to one or more messages.

The reply (or replies if you are using this on multiple messages)
will be sent ONLY to the person who sent you the message
(respectively, the set of people who sent the messages you are
replying to).

You can

add people using the `%B~t`, `%B~c`, and `%B~b` tilde escapes. The subject in your reply is formed by prefacing the
subject in the original message with

```
"Re:"
```

unless it already began thus.

If the original message included a

```
"reply-to"
```

header field, the reply will go

```
i only
```

to the recipient named by

```
"reply-to:"
```

You type in your message using the same conventions available to you
through the
```
%mail
```
command.

The
```
%Reply
```
command is especially useful for replying to messages that were sent
to enormous distribution groups when you really just want to
send a message to the originator. Use it often.

`%BReply` (and `%BRespond`) can be abbreviated to `%BR`.

```
"R
```

Identical to the

```
%Print
```
command.

`%BType` can be abbreviated to `%Bt`.

```
"a
```

Define a name to stand for a set of other names.
This is used when you want to send messages to a certain
group of people and want to avoid retyping their names.

For example
```
(a
alias project john sue willie kathryn

creates an alias

which expands to the four people John, Sue, Willie, and Kathryn.

If no arguments are given, all currently-defined aliases are printed.

If one argument is given, that alias is printed (if it exists).

\fBAlias\fP can be abbreviated to \fBa\fP.

.ip "fBAlternates\fP"

If you have accounts on several machines, you may find it convenient
to use \etc/mail/aliases on all the machines except one to direct
your mail to a single account.

The

\b alternates

command is used to inform

\i Mail

t hat each of these other addresses is really

\i you .

\i Alternates
takes a list of user names and remembers that they are all actually you.

When you

\b reply

to messages that were sent to one of these alternate names,

\i Mail

will not bother to send a copy of the message to this other address (which

would simply be directed back to you by the alias mechanism).

If

\i alternates

is given no argument, it lists the current set of alternate names.

\b Alternates

is usually used in the .mailrc file.

\fBAternates\fP can be abbreviated to \fBalt\fP.

.ip "fBchdir\fP"

The

\b chdir

command allows you to change your current directory.

\b Chdir
takes a single argument, which is taken to be the pathname of

the directory to change to. If no argument is given,

\b chdir

changes to your home directory.

\fBchdir\fP can be abbreviated to \fBc\fP.

.ip "fBcopy\fP"

The

\b copy

command does the same thing that

\b save
does, except that it does not mark the messages it is used on
for deletion when you quit.

\texttt{\textbf{Copy} can be abbreviated to \textbf{co}.}

\texttt{.ip \"\textbf{delete}\ \"}

Deletes a list of messages. Deleted messages can be reclaimed
with the
\texttt{.b undelete}

command.

\texttt{\textbf{Delete} can be abbreviated to \textbf{d}.}

\texttt{.ip \"\textbf{dp} or \textbf{dt}\ \"}

These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.

If there is no next message, \texttt{Mail} says ``No more messages.''

\texttt{.ip \"\textbf{edit}\ \"}

To edit individual messages using the text editor, the
\texttt{.b edit}

command is provided. The
\texttt{.b edit}

command takes a list of messages as described under the
\texttt{.b type}

command and processes each by writing it into the file
Message\c

\texttt{i x}

where

\texttt{i x}

is the message number being edited and executing the text editor on it.

When you have edited the message to your satisfaction, write the message
out and quit, upon which

\texttt{Mail}

will read the message back and remove the file.

\texttt{.b Edit}

can be abbreviated to

\texttt{.b e .}

\texttt{.ip \"\textbf{else}\ \"}

Marks the end of the then-part of an
\texttt{.b if}

statement and the beginning of the
part to take effect if the condition of the
\texttt{.b if}

statement is false.

\texttt{.ip \"\textbf{endif}\ \"}

Marks the end of an
\texttt{.b if}

statement.

\texttt{.ip \"\textbf{exit} or \textbf{xit}\ \"}

Leave

\texttt{Mail}

without updating the system mailbox or the file you were reading.
Thus, if you accidentally delete several messages, you can use .b exit to avoid scrambling your mailbox.

.fBExit.fP can be abbreviated to .fBex.fP or .fBx.fP.

.fP "\fBfile\fP "
The same as .b folder.

.fBFile.fP can be abbreviated to .fBfil.fP.

.fP "\fBfile\fP "
List the names of the folders in your folder directory.

.fP "\fBfile\fP "
The .b folder command switches to a new mail file or folder. With no arguments, it tells you which file you are currently reading. If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file.

Some special conventions are recognized for the name:

<table>
<thead>
<tr>
<th>Name</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>#</em></td>
<td>Previous file read</td>
</tr>
<tr>
<td>%</td>
<td>Your system mailbox</td>
</tr>
<tr>
<td>%name</td>
<td>Name's system mailbox</td>
</tr>
<tr>
<td>&amp;</td>
<td>Your ~/mbox file</td>
</tr>
<tr>
<td>+folder</td>
<td>A file in your folder directory</td>
</tr>
</tbody>
</table>

.fE

.fBFolder.fP can be abbreviated to .fBfol.fP.

.fP "\fBfolder\fP "
The .b from command takes a list of messages and prints out the header lines for each one; hence

.(l
| from joe |
|)l

is the easy way to display all the message headers from \*(lqjoe\*(rq

.fBFrom.fP can be abbreviated to .fBfom.fP.

.fP "\fBfrom\fP "
When you start up .i Mail to read your mail, it lists the message headers that you have.

These headers tell you who each message is from, when they were...
received, how many lines and characters each message is, and the
"Subject:"
header field of each message, if present. In addition,
Mail
tags the message header of each message that has been the object
of the
preserve
command with a
P.
Messages that have been
saved
or
written
are flagged with a
*
Finally,
deleted
messages are not printed at all. If you wish to reprint the current
list of message headers, you can do so with the
headers
command. The
headers
command (and thus the initial header listing)
only lists the first so many message headers.
The number of headers listed depends on the speed of your
terminal.
Mail
maintains a notion of the current
window
into your messages for the purposes of printing headers.
Use the
z
command to move forward a window,
and
z-
to move back a window.
You can move
Mail's
notion of the current window directly to a particular message by
using, for example,
headers 40
headers 40

\fBHeaders\fP can be abbreviated to \fBh\fP.
Print a brief and usually out of date help message about the commands in
.in Mail.
The
.in man
page for
.in mail
is usually more up-to-date than either the help message or this manual. It is also a synonym for \fB?\fP.
.ip "\fBhold\fP\ "
Arrange to hold a list of messages in the system mailbox, instead of moving them to the file
.in mbox
in your home directory. If you set the binary option
.in hold,
this will happen by default. It does not override the \fBdelete\fP command. \fBHold\fP can be abbreviated to \fBho\fP.
.ip "\fBif\fP\ "
Commands in your
.in .mailrc
file can be executed conditionally depending on whether you are sending or receiving mail with the
.in if command. For example, you can do:
.(l
if receive
\fIcommands\fP...
endif
.)l
An
.in else
form is also available:
.(l
if send
\fIcommands\fP...
else
\fIcommands\fP...
endif
.)l
Note that the only allowed conditions are
.in receive
and
.in send.
ip "\fBignore\fP \ "
.in N.B.:
.in Ignore
has been superseded by
Add the list of header fields named to the "ignore list".

Header fields in the ignore list are not printed on your terminal when you print a message. This allows you to suppress printing of certain machine-generated header fields, such as Via which are not usually of interest. The Type and Print commands can be used to print a message in its entirety, including ignored fields.

If ignore is executed with no arguments, it lists the current set of ignored fields.

Incorporate any new messages that have arrived while mail is being read. The new messages are added to the end of the message list, and the current message is reset to be the first new mail message. This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

List the valid Mail commands. 

Local can be abbreviated to L.

Define a list of local names for this host. This command is useful when the host is known by more than one name. Names in the list may be qualified by the domain of the host. The first name on the local list is the distinguished name of the host.

The names on the local list are used by Mail to decide which addresses are local to the host.

For example:

local ucbarp.BERKELEY.ARPA arpa.BERKELEY.ARPA \arpavax.BERKELEY.ARPA \ucb-arpa.ARPA \)

From this list we see that "fred@ucbarpa.BERKELEY.ARPA", "harold@arpa.BERKELEY", and
are all addresses of users on the local host. The command is usually not used by general users since it is designed for local configuration; it is usually found in the file /usr/lib/Mail.rc.

Send mail to one or more people. If you have the ask option set, Mail will prompt you for a subject to your message. Then you can type in your message, using tilde escapes as described in section 4 to edit, print, or modify your message. To signal your satisfaction with the message and send it, type <Control-D> at the beginning of a line, or a . alone on a line if you set the option dot.

To abort the message, type two interrupt characters (Control-C by default) in a row or use the .b ~q
or .b ~x escapes. The \Bmail\ command can be abbreviated to \Bm\.

Indicate that a list of messages be sent to \i mbox\ in your home directory when you quit. This is the default action for messages if you do not have the \i hold\ option set.

Takes a message list and invokes the pager on that list. The \Bnext\ command goes to the next message and types it. If given a message list, \b next\ goes to the first such message and types it. Thus, \l next root \r goes to the next message sent by \q root and types it. The \b next
command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters

.q "^a"
.q "."

or
.q "$".

Thus,
.(I
\&.
).I
prints the current message and
.(I
4
).I
prints message 4, as described previously.
\fBNext\fP can be abbreviated to \fBn\fP.
.ip "\fBpreserve\fP \fP"
Same as
.b hold .
Cause a list of messages to be held in your system mailbox when you quit.
\fBPreserve\fP can be abbreviated to \fBpre\fP.
.ip "\fBprint\fP \fP"
Print the specified messages. If the
.b crt
variable is set, messages longer than the number of lines it indicates are paged through the command specified by the \fBpAGER\fP variable.
The \fBprint\fP command can be abbreviated to \fBp\fP.
.ip "\fBquit\fP \fP"
Terminates the session, saving all undeleted, unsaved and unwritten messages in the user's \fImbox\fP file in their login directory (messages marked as having been read), preserving all messages marked with \fBhold\fP or \fBpreserve\fP or never referenced in their system mailbox.

Any messages that were deleted, saved, written, or saved to \fImbox\fP are removed from their system mailbox.
If new mail has arrived during the session, the message
``You have new mail'' is given. If given while editing a mailbox file with the \fB-v\fP flag, then the edit file is rewritten.
A return to the Shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the \fBexit\fP command.
\fBQuit\fP can be abbreviated to \fBq\fP.
.ip "\fBreply\fP or \fBrespond\fP \fP"
Frame a reply to a single message.
The reply will be sent to the person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can add people using the \fB-t\fP, \fB-c\fP, and \fB-b\fP
tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with
.q "Re:"
unless it already began thus.
If the original message included a
.q "reply-to"
header field, the reply will go
.i only
to the recipient named by
.q "reply-to."
You type in your message using the same conventions available to you through the
.b mail
command.
The \Breply\P (and \Brespond\P) command can be abbreviated to \Br\P.
.ip "\Bretain\P\ "
Add the list of header fields named to the \Br\text{retain list}\P.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
.b Type
and
.b Print
commands can be used to print a message in its entirety.
If
.b retain
is executed with no arguments, it lists the current set of retained fields.
.ip "\Bs\text{save}\P\ "
It is often useful to be able to save messages on related topics in a file. The
.b save
command gives you the ability to do this. The
.b save
command takes as an argument a list of message numbers, followed by the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there.
The filename in quotes, followed by the line count and character count is echoed on the user's terminal.
An example of the
.b save
command relative to our running example is:
.(l
s 1 2 tuitionmail
.)l
.b Saved
messages are not automatically saved in .i mbox at quit time, nor are they selected by the .b next command described above, unless explicitly specified.  

\fBSave\fP can be abbreviated to \fBs\fP.  

\fBsaveignore\fP is to \fBsave\fP what \fBignore\fP is to \fBprint\fP and \fBtype\fP.  

Header fields thus marked are filtered out when saving a message by \fBsave\fP or when automatically saving to \fImbox\fP.  

\fBsaveretain\fP is to \fBsave\fP what \fBretain\fP is to \fBprint\fP and \fBtype\fP.  

Header fields thus marked are the only ones saved with a message when saving by \fBsave\fP or when automatically saving to \fImbox\fP.  

\fBsaveretain\fP overrides \fBsaveignore\fP.  

Set an option or give an option a value.  Used to customize .i Mail .  

Section 5.3 contains a list of the options.  Options can be .i binary , in which case they are .i on or .i off , or .i valued .  

To set a binary option .i option .i on , do .(l set option .)l  

To give the valued option .i option the value .i value , do .(l set option=value .)l  

There must be no space before or after the `='' sign.  

If no arguments are given, all variable values are printed.  

Several options can be specified in a single .b set command.
The `.b shell` command allows you to escape to the shell.

`.b Shell` invokes an interactive shell and allows you to type commands to it. When you leave the shell, you will return to `.i Mail`.

The shell used is a default assumed by `.i Mail`; you can override this default by setting the valued option `.q SHELL`, eg:

```
(l
set SHELL=/bin/csh
)l
```

`.BShell` can be abbreviated to `.Bsh`.

`.i p "shsize\" "
Takes a message list and prints out the size in characters of each message.

`.i p "source\" "
The `.b source` command reads `.i mail` commands from a file. It is useful when you are trying to fix your `.q .mailrc` file and you need to re-read it.

`.BSource` can be abbreviated to `.Bso`.

`.i p "btop\" "
The `.b top` command takes a message list and prints the first five lines of each addressed message. If you wish, you can change the number of lines that `.b top` prints out by setting the valued option `.q "toplines."`

On a CRT terminal,

```
(l
set toplines=10
)l
```

might be preferred.

`.BTop` can be abbreviated to `.Bto`.

`.i p "ftype\" "
Same as `.Bprint`.
Takes a message list and types out each message on the terminal. The \texttt{type} command can be abbreviated to \texttt{t}.

\texttt{unalias} takes a list of names defined by \texttt{alias} commands and discards the remembered groups of users. The group names no longer have any significance.

\texttt{undelete} takes a message list and marks each message as \texttt{not} being deleted. \texttt{undelete} can be abbreviated to \texttt{u}.

\texttt{unread} takes a message list and marks each message as \texttt{not} having been read. \texttt{unread} can be abbreviated to \texttt{U}.

\texttt{unset} takes a list of option names and discards their remembered values; the inverse of \texttt{set}.

\texttt{visual} It is often useful to be able to invoke one of two editors, based on the type of terminal one is using. To invoke a display oriented editor, you can use the \texttt{visual} command. The operation of the \texttt{visual} command is otherwise identical to that of the \texttt{edit} command.

Both the \texttt{edit} and \texttt{visual} commands assume some default text editors. The default for \texttt{EDITOR} is \texttt{/usr/bin/ex}.

The default for \texttt{VISUAL} is \texttt{/usr/bin/vi}.

These default editors can be overridden by the valued options \texttt{EDITOR} and \texttt{VISUAL} for the standard and screen editors. You might want to do:
The .b save command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the .b write command. The .b write command has the same syntax as the .b save command, and can be abbreviated to simply .b w . Thus, we could write the second message by doing:
\( \text{w 2 file.c} \)

As suggested by this example, the .b write command is useful for such tasks as sending and receiving source program text over the message system. The filename in quotes, followed by additional file information, is echoed on the user's terminal.

Mail presents message headers in windowfuls as described under the .b headers command. You can move Mail's attention forward to the next window by giving the .z+ command. Analogously, you can move to the previous window with:
\( \text{z}\- \)

Throughout this manual, we have seen examples of binary and valued options. This section describes each of the options in alphabetical order, including some that you have not seen yet.
To avoid confusion, please note that the options are either all lower case letters or all upper case letters. When I start a sentence such as:
.q "Ask"
causes
.i Mail
to prompt you for a subject header,
I am only capitalizing
.q ask
as a courtesy to English.
.ip "\EDITOR\" The valued option
.q EDITOR
defines the pathname of the text editor to be used in the
.b edit
command and ~e escape. If not defined,
.i /usr/bin/ex
is used.
.ip "\BLISTER\" Pathname of the directory lister to use in the \folders\ command.
 Default is \ls.
.ip "\BMBOX\" The name of the \mbox file.
 It can be the name of a folder.
The default is \mbox in the user’s home directory.
.ip "\PAGER\" Pathname of the program to use for paginating output when it exceeds \crt lines.
 A default paginator is used if this option is not defined.
.ip "\SHELL\" The valued option
.q SHELL
gives the path name of your shell. This shell is used for the
.b !
command and ~! escape. In addition, this shell expands
file names with shell metacharacters like * and ? in them.
.ip "\VISUAL\" The valued option
.q VISUAL
defines the pathname of the screen editor to be used in the
.b visual
command
and ~v escape. If not defined,
.i /usr/bin/vi
is used.
.ip "\append\"
The
.q append
option is binary and
causes messages saved in
.i mbox
to be appended to the end rather than prepended.
Normally, \fIMail\fP will put messages in \fImbox\fP
in the same order that the system puts messages in your system mailbox.
By setting
.q append,
you are requesting that
.i mbox
be appended to regardless. It is in any event quicker to append.
.ip "\fBask\fP\ "
.q "Ask"
is a binary option which
causes
.i Mail
to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.
.ip "\fBaskbcc\fP\ "
.q Askbcc
is a binary option which
causes you to be prompted for additional blind carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.ip "\fBaskcc\fP\ "
.q Askcc
is a binary option which
causes you to be prompted for additional carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.ip "\fBautoinc\fP\ "
Causes new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the \fBinc\fP command at each prompt,
except that the current message is not reset when new mail arrives.
.ip "\fBautoprint\fP\ "
.q Autoprint
is a binary option which
causes the
.b delete
command to behave like
.b dp
\"- thus, after deleting a message, the next one will be typed
automatically. This is useful when quickly scanning and deleting
messages in your mailbox.
.ip "\fBcr\fP \ "
The valued option
is used as a threshold to determine how long a message must be before.

PAGER is used to read it.

- `debug` causes debugging information to be displayed. Use of this option is the same as using the `-d` command line flag.

- `dot` is a binary option which, if set, causes `Mail` to interpret a period alone on a line as the terminator of the message you are sending.

- `escape` allows you to change the escape character used when sending mail. You can set the valued option by setting `escape`. Only the first character of the escape option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then `~` loses all its special meaning, and need no longer be doubled at the beginning of a line.

- `folder` is the name of the directory to use for storing folders of messages. If this name begins with a `/', Mail considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

- `hold` is the binary option which causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your `~inbox` file.

- `ignore` causes <Control-C> characters from your terminal to be ignored and echoed as @'s while you are sending mail. <Control-C> characters retain their original meaning in `Mail` command mode. Setting the `ignore` option:  

```
 Conference Room Management System

Open Source Used in RCM 21.25  9324
```
option is equivalent to supplying the
\b -i
flag on the command line as described in section 6.
.ip "\fBignoreeof\fP\ "
An option related to
.q dot
is
.q ignoreeof,
which makes
.i Mail
refuse to accept a <Control-D> as the end of a message.
.q Ignoreeof
also applies to
.i Mail
command mode.
.ip "\fBindentprefix\fP\ "
String used by the \fB~m\fP tilde escape for indenting messages,
in place of the normal tab character (`^I').
Be sure to quote the value if it contains spaces or tabs.
.ip "\fBkeep\fP\ "
The
.q keep
option causes
.i Mail
to truncate your system mailbox instead of deleting it when it
is empty. This is useful if you elect to protect your mailbox, which
you would do with the shell command:
.(l
chmod 600 /var/mail/yourname
)l
where
.i yourname
is your login name. If you do not do this, anyone can probably read
your mail, although people usually don't.
.ip "\fBkeepsave\fP\ "
When you
.b save
a message,
.i Mail
usually discards it when you
.b quit.
To retain all saved messages, set the
.q keepsave
option.
.ip "\fBmetoo\fP\ "
When sending mail to an alias,
.i Mail
makes sure that if you are included in the alias, that mail will not
be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option .q metoo.

The binary option .q noheader suppresses the printing of the version and headers when .i Mail is first invoked. Setting this option is the same as using .b \-N on the command line.

Normally, when you abort a message with two <Control-C>'s, .i Mail copies the partial letter to the file .q dead.letter in your home directory. Setting the binary option .q nosave prevents this.

Reverses the sense of .i reply and .i Reply commands.

The binary option .q quiet suppresses the printing of the version when .i Mail is first invoked, as well as printing the for example .q "Message 4:"

from the .b type command.

If you love to keep records, then the valued option .q record can be set to the name of a file to save your outgoing mail. Each new message you send is appended to the end of the file.

When .i Mail initially prints the message headers, it determines the number to
print by looking at the speed of your terminal. The faster your
terminal, the more it prints.
The valued option
.q screen
overrides this calculation and
specifies how many message headers you want printed.
This number is also used for scrolling with the
.b z
command.
.ip "lfBsearchheaderslfP\ "
If this option is set, then a message-list specifier in the form
``/x:y'' will expand to all messages containing the substring
`y' in the header field `x'.
The string search is case insensitive.

If `x' is omitted, it will default to the ``Subject'' header field.
The form ``/to:y'' is a special case, and will expand
to all messages containing the substring `y' in the ``To'', ``Cc'',
or ``Bcc'' header fields.
The check for ``to'' is case sensitive, so that ``/To:y''
can be used to limit the search for `y' to just the ``To:'' field.
.ip "lfBsendmaillfP\ "
To use an alternate mail delivery system, set the
.q sendmail
option to the full pathname of the program to use. Note: this is not
for everyone! Most people should use the default delivery system.
.ip "lfBtoplineslfP\ "
The valued option
.q toplines
defines the number of lines that the
.q top
command will print out instead of the default five lines.
.ip "lfBverboselfP\ "
The binary option "verbose" causes
.i Mail
to invoke sendmail with the
.b \-v
flag, which causes it to go into verbose mode and announce expansion
of aliases, etc. Setting the "verbose" option is equivalent to
invoking
.i Mail
with the
.b \-v
flag as described in section 6.
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@(#)mail8.nr 8.2 (Berkeley) 5/16/94

This section contains the definitions of a few phrases peculiar to Mail.

An alternative name for a person or list of people.

An option, given on the command line of Mail, prefaced with a -. For example,

is a flag.

At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include to, cc, and subject.
A collection of messages. Often used in the phrase, "Have you read your mail?"

The place where your mail is stored, typically in the directory /var/mail.

A single letter from someone, initially stored in your mailbox. A string used in command mode to describe a sequence of messages.

A piece of special purpose information used to tailor Mail to your taste. Options are specified with the set command.

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This section gives a quick summary of the Mail commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>Same as \Next\P</td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of \Mai\P commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>Print</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>Reply</td>
<td>Reply to author of message only</td>
</tr>
<tr>
<td>Respond</td>
<td>Same as \Reply\P</td>
</tr>
<tr>
<td>Type</td>
<td>Type message with ignored fields</td>
</tr>
</tbody>
</table>
alias Define an alias as a set of user names
alternates List other names you are known by
chdir Change working directory, home by default
copy Copy a message to a file or folder
delete Delete a list of messages
dp Same as \fBdt\fP
dt Delete current message, type next message
edit Edit a list of messages
else Start of else part of conditional; see \fBif\fP
endif End of conditional statement; see \fBif\fP
exit Leave mail without changing anything
file Interrogate/change current mail file
folders List the folders in your folder directory
from List headers of a list of messages
headers List current window of messages
help Same as \fB?\fP
hold Same as \fBpreserve\fP
if Conditional execution of \fIMail\fP commands
ignore Set/examine list of ignored header fields
incl Incorporate new messages
list List valid \fIMail\fP commands
mail Send mail to specified names
mbox Arrange to save a list of messages in \fImbox\fP
more Invoke pager on message list
next Go to next message and type it
preserve Arrange to leave list of messages in system mailbox
print Print messages
quit Leave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate
reply Compose a reply to a message
respond Same as \fBreply\fP
retain Supersedes \fBignore\fP
save Append messages, headers included, on a file
saveignore List of headers to ignore when using the \fBsave\fP command
saveretain List of headers to retain when using the \fBsave\fP command
set Set binary or valued options
shell Invoke an interactive shell
size Prints out size of message list
source Read \fIMail\fP commands from a file
top Print first so many (5 by default) lines of list of messages
type Same as \fBprint\fP
unalias Remove alias
undelete Undelete list of messages
unread Marks list of messages as not been read
unset Undo the operation of a \fBset\fP
visual Invoke visual editor on a list of messages
write Append messages to a file, don't include headers
xit Same as \fBexit\fP
The following table describes the options. Each option is shown as being either a binary or valued option.

<table>
<thead>
<tr>
<th>Option</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDITOR</td>
<td>valued</td>
<td>Pathname of editor for ~e and BeditP</td>
</tr>
<tr>
<td>LISTER</td>
<td>valued</td>
<td>Pathname of directory lister</td>
</tr>
<tr>
<td>MBOX</td>
<td>valued</td>
<td>Pathname of the ImboxP file</td>
</tr>
<tr>
<td>PAGER</td>
<td>valued</td>
<td>Pathname of pager for BPrintP, BprintP, BTypeP and BtypeP</td>
</tr>
<tr>
<td>SHELL</td>
<td>valued</td>
<td>Pathname of shell for BshellP, ~! and B!\fP</td>
</tr>
<tr>
<td>VISUAL</td>
<td>valued</td>
<td>Pathname of screen editor for ~v, BvisualP</td>
</tr>
<tr>
<td>append</td>
<td>binary</td>
<td>Always append messages to end of ImboxP</td>
</tr>
<tr>
<td>ask</td>
<td>binary</td>
<td>Prompt user for Subject: field when sending</td>
</tr>
<tr>
<td>askbcc</td>
<td>binary</td>
<td>Prompt user for additional BCc's at end of message</td>
</tr>
<tr>
<td>askcc</td>
<td>binary</td>
<td>Prompt user for additional Cc's at end of message</td>
</tr>
<tr>
<td>autoinc</td>
<td>binary</td>
<td>Automatically incorporate new mail</td>
</tr>
<tr>
<td>autoprint</td>
<td>binary</td>
<td>Print next message after \fBdelete\fP</td>
</tr>
<tr>
<td>crt</td>
<td>valued</td>
<td>Minimum number of lines before using BPAGER\fP</td>
</tr>
<tr>
<td>debug</td>
<td>binary</td>
<td>Print out debugging information</td>
</tr>
<tr>
<td>dot</td>
<td>binary</td>
<td>Accept . alone on line to terminate message input</td>
</tr>
<tr>
<td>escape</td>
<td>valued</td>
<td>Escape character to be used instead of ~</td>
</tr>
<tr>
<td>folder</td>
<td>valued</td>
<td>Directory to store folders in</td>
</tr>
<tr>
<td>hold</td>
<td>binary</td>
<td>Hold messages in system mailbox by default</td>
</tr>
<tr>
<td>ignore</td>
<td>binary</td>
<td>Ignore &lt;Control-C&gt; while sending mail</td>
</tr>
<tr>
<td>ignoreof</td>
<td>binary</td>
<td>Don't terminate letters/command input with \B^D\fP</td>
</tr>
<tr>
<td>indentprefix</td>
<td>valued</td>
<td>String used for indenting messages</td>
</tr>
<tr>
<td>keep</td>
<td>binary</td>
<td>Don't unlink system mailbox when empty</td>
</tr>
<tr>
<td>keepsave</td>
<td>binary</td>
<td>Don't delete \fBsave\fPd messages by default</td>
</tr>
<tr>
<td>metoo</td>
<td>binary</td>
<td>Include sending user in aliases</td>
</tr>
<tr>
<td>noheader</td>
<td>binary</td>
<td>Suppress initial printing of version and headers</td>
</tr>
<tr>
<td>nosave</td>
<td>binary</td>
<td>Don't save partial letter in \fIdead.letter\fP</td>
</tr>
<tr>
<td>Replyall</td>
<td>binary</td>
<td>Reverses the sense of the \fB[Rr]eply\fP commands</td>
</tr>
<tr>
<td>quiet</td>
<td>binary</td>
<td>Suppress printing of \fIMail\fP version/message numbers</td>
</tr>
<tr>
<td>record</td>
<td>valued</td>
<td>File to save all outgoing mail in</td>
</tr>
<tr>
<td>screen</td>
<td>valued</td>
<td>Size of window of message headers for \fBz\fP, etc.</td>
</tr>
<tr>
<td>toplines</td>
<td>valued</td>
<td>Number of lines to print in \fBtop\fP</td>
</tr>
<tr>
<td>verbose</td>
<td>binary</td>
<td>Invoke sendmail with the \fB-v\fP flag</td>
</tr>
</tbody>
</table>

zScroll to next/previous screenful of headers

.(b

.pp

The following table describes the options. Each option is shown as being either a binary or valued option.

.TS

center;
ci ci

1 ci l.

Option Type Description

EDITOR valued Pathname of editor for ~e and \fBedit\fP
LISTER valued Pathname of directory lister
MBOX valued Pathname of the \fImbox\fP file
PAGER valued Pathname of pager for \fBPrint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP
SHELL valued Pathname of shell for \fBshell\fP, ~! and \fB!\fP
VISUAL valued Pathname of screen editor for ~v, \fBvisual\fP
append binary Always append messages to end of \fImbox\fP
ask binary Prompt user for Subject: field when sending
askbcc binary Prompt user for additional BCc's at end of message
askcc binary Prompt user for additional Cc's at end of message
autoinc binary Automatically incorporate new mail
autoprint binary Print next message after \fBdelete\fP
crt valued Minimum number of lines before using \fBPAGER\fP
debg binary Print out debugging information
dot binary Accept . alone on line to terminate message input
escape valued Escape character to be used instead of \~
folder valued Directory to store folders in
hold binary Hold messages in system mailbox by default
ignore binary Ignore <Control-C> while sending mail
ignoreof binary Don't terminate letters/command input with \B^D\fP
indentprefix valued String used for indenting messages
keepbinary Don't unlink system mailbox when empty
keepsave binary Don't delete \fBsave\fPd messages by default
metoo binary Include sending user in aliases
noheader binary Suppress initial printing of version and headers
nosave binary Don't save partial letter in \fIdead.letter\fP
Replyall binary Reverses the sense of the \fB[Rr]eply\fP commands
quiet binary Suppress printing of \fIMail\fP version/message numbers
record valued File to save all outgoing mail in
screen valued Size of window of message headers for \fBz\fP, etc.
searchheaders binary Search string for message headers
sendmail valued Choose alternate mail delivery system
toplines valued Number of lines to print in \fBtop\fP
verbose binary Invoke sendmail with the \fB\-v\fP flag

.(b
The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>~b name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
<td></td>
</tr>
<tr>
<td>~c name ...</td>
<td>Add names to Cc: field.</td>
<td></td>
</tr>
<tr>
<td>~d</td>
<td>Read \fIdead.letter\fP into message.</td>
<td></td>
</tr>
<tr>
<td>~e</td>
<td>Invoke text editor on partial message.</td>
<td></td>
</tr>
<tr>
<td>~F messages</td>
<td>Same as ~f, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~f messages</td>
<td>Read in messages.</td>
<td></td>
</tr>
<tr>
<td>~h</td>
<td>Edit the header fields.</td>
<td></td>
</tr>
<tr>
<td>~M messages</td>
<td>Same as ~m, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~m messages</td>
<td>Read in messages, right shifted by a tab.</td>
<td></td>
</tr>
<tr>
<td>~p</td>
<td>Print (show) the message buffer.</td>
<td></td>
</tr>
<tr>
<td>~q</td>
<td>Abort message; optionally save copy to ~/dead.letter.</td>
<td></td>
</tr>
<tr>
<td>~r file</td>
<td>Read a file into the message buffer.</td>
<td></td>
</tr>
<tr>
<td>~s string</td>
<td>Set Subject: field to \fIstring\fP.</td>
<td></td>
</tr>
<tr>
<td>~t name ...</td>
<td>Add names to To: field.</td>
<td></td>
</tr>
<tr>
<td>~v</td>
<td>Invoke display editor on message.</td>
<td></td>
</tr>
<tr>
<td>~w filename</td>
<td>Write message to file.</td>
<td></td>
</tr>
<tr>
<td>~?</td>
<td>Abort message; no copy is saved.</td>
<td></td>
</tr>
<tr>
<td>~!command</td>
<td>Execute shell command.</td>
<td></td>
</tr>
<tr>
<td>~</td>
<td>command</td>
<td>Pipe message through \fIcommand\fP.</td>
</tr>
<tr>
<td>~:command</td>
<td>Execute a \fIMail\fP command.</td>
<td></td>
</tr>
<tr>
<td>~~~string</td>
<td>Quote a single tilde.</td>
<td></td>
</tr>
<tr>
<td>~.</td>
<td>Simulate end of file on input.</td>
<td></td>
</tr>
</tbody>
</table>

The following table shows the command line flags that \fIMail\fP accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-b \fIlist\fP</td>
<td>Send blind carbon copies to \fIlist\fP.</td>
</tr>
<tr>
<td>-c \fIlist\fP</td>
<td>Send carbon copies to \fIlist\fP.</td>
</tr>
</tbody>
</table>
Turn on debugging
Show messages in \filename or \~/mbox
Force \Mail to run in interactive mode
Ignore tty interrupt signals
Suppress the initial printing of headers
Inhibit reading of /etc/mailrc
Use \filename as subject in outgoing mail
Article-id's of read/deleted messages to \file
Read \user's mail instead of your own
Invoke sendmail with the \B-v\flag

Notes:
\b \d
\b \T
are not for human use.

```
\$OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $
```

```
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```

```
\@(#)mail6.nr 8.2 (Berkeley) 5/16/94
```
This section describes command line options for Mail and what they are used for.

- `-b list`
  Send blind carbon copies to list.
- `-c list`
  Send carbon copies to list of users. List should be a comma separated list of names.
- `-f file`
  Show the messages in file instead of your system mailbox. If file is omitted, Mail reads `mbox` in your home directory.
- `-I`
  Forces mail to run in interactive mode, even when input is not a terminal. In particular, the special `~` command character, used when sending mail, is only available interactively.
- `-i`
  Ignore tty interrupt signals. This is particularly useful when using mail on noisy phone lines.
- `-N`
  Suppress the initial printing of headers.
- `-n`
  Inhibit reading of `/etc/mail.rc` upon startup.
- `-s string`
  Used for sending mail. String is used as the subject of the message being composed. If string contains blanks, you must surround it with quote marks.
- `-u name`
  Read mail instead of your own. Unwitting others often neglect to protect their mailboxes, but discretion is advised. Essentially, `-u user` is a shorthand way of doing `-f /var/mail/user`. 
- `-v`
Use the 
`.b \-v`
flag when invoking sendmail. This feature may also be enabled by setting the option "verbose".
`.PP`
The following command line flags are also recognized, but are intended for use by programs invoking
`.i Mail`
and not for people.
`.ip \-d`
Turn on debugging information. Not of general interest.
`.ip "\-T file"`
Arrange to print on
`.i file`
the contents of the
`.i article-id`
fields of all messages that were either read or deleted.
`.b \-T`
is for the
`.i readnews`
program and should NOT be used for reading your mail.

"OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $"
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"HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
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While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

Mail provides these capabilities through "tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```plaintext
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since Mail requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```plaintext
~e
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.

Mail will respond by typing

```plaintext
(continue)
```

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.

A standard text editor is provided by Mail.

You can override this default by setting the valued option

```plaintext
q EDITOR
```
Many systems offer a screen editor as an alternative to the standard text editor, such as the `vi` editor from UC Berkeley, or `nano`, an emacs-like editor.

To use the screen, or `visual` editor, on your current message, you can use the escape,

```
~v
```

~v works like ~e, except that the screen editor is invoked instead. A default screen editor is defined by

```
Mail
```

If it does not suit you, you can set the valued option

```
VISUAL
```

to the path name of a different editor.

It is often useful to be able to include the contents of some file in your message; the escape

```
~r filename
```

is provided for this purpose, and causes the named file to be appended to your current message. `Mail` complains if the file doesn't exist or can't be read. If the read is successful, the number of lines and characters appended to your message is printed, after which you may continue appending text. The filename may contain shell metacharacters like * and ? which are expanded according to the conventions of your shell.

As a special case of ~r, the escape

```
~d
```

reads in the file

```
dead.letter
```

in your home directory. This is often useful since `Mail` copies the text.
of your message there when you abort a message with <Control-C>.  
.
PP  
To save the current text of your message on a file you may use the  
.
(l  
~w filename  
)l  
escape.  
.i Mail  
will print out the number of lines and characters written  
to the file, after which you may continue appending text to your message.  
Shell metacharacters may be used in the filename, as in ~r and are expanded  
with the conventions of your shell.  
-PP  
If you are sending mail from within  
.i Mail's  
command mode  
you can read a message sent to you into the message  
you are constructing with the escape:  
.
(l  
~m 4  
)l  
which will read message 4 into the current message, shifted right by  
one tab stop.  You can name any non-deleted message, or list of messages.  
Messages can also be forwarded without shifting by a tab stop with ~f.  
This is the usual way to forward a message.  
-PP  
If, in the process of composing a message, you decide to add additional  
people to the list of message recipients, you can do so with the escape  
.
(l  
~t name1 name2 ...  
)l  
You may name as few or many additional recipients as you wish.  Note  
that the users originally on the recipient list will still receive  
the message; you cannot remove someone from the recipient  
list with ~t.  
-PP  
If you wish, you can associate a subject with your message by using the  
escape  
.
(l  
~s Arbitrary string of text  
)l  
which replaces any previous subject with  
.q "Arbitrary string of text."  
The subject, if given, is sent near the  
top of the message prefixed with  
.q "Subject:"  
You can see what the message will look like by using ~p.  
-PP
For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape
\(\text{~c name1 name2 ...}\)
adds the named people to the
\('Cc:'\) list, similar to \(~t\).
Again, you can execute \(~p\) to see what the message will look like.

The escape
\(\text{~b name1 name2 ...}\)
adds the named people to the
\('Cc:'\) list, but does not make the names visible in the
\('Cc:'\) line ("blind" carbon copy).

The recipients of the message together constitute the
\('To:'\) field, the subject the
\('Subject:'\) field, and the carbon copies the
\('Cc:'\) field. If you wish to edit these in ways impossible with the \(~t\), \(~s\), \(~c\) and \(~b\) escapes, you can use the escape
\(\text{~h}\)
which prints
\('To:'\) followed by the current list of recipients and leaves the cursor (or printhead) at the end of the line. If you type in ordinary characters, they are appended to the end of the current list of recipients. You can also use your erase character to erase back into the list of recipients, or your kill character to erase them altogether. Thus, for example, if your erase and kill characters are the standard (on printing terminals) \(<\text{Control-H}>\) and \(<\text{Control-U}>\) keys,
\(\text{~h}\)
\(\text{To: root kurt^H^H^H^Hbill}\)
would change the initial recipients
\('root kurt'\) to
When you type a newline, Mail advances to the "Subject:" field, where the same rules apply. Another newline brings you to the "Cc:" field, which may be edited in the same fashion. Another newline brings you to the "Bcc:" ("blind" carbon copy) field, which follows the same rules as the "Cc:" field. Another newline leaves you appending text to the end of your message. You can use ~p to print the current text of the header fields and the body of the message.

To effect a temporary escape to the shell, the escape
~!command
is used, which executes the command and returns you to mailing mode without altering the text of your message. If you wish, instead, to filter the body of your message through a shell command, then you can use
~:command
which pipes your message through the command and uses the output as the new text of your message. If the command produces no output, Mail assumes that something is amiss and retains the old version of your message. A frequently-used filter is the command fmt, designed to format outgoing mail.

To effect a temporary escape to command mode instead, you can use the ~Mail command\dfP escape. This is especially useful for retyping the message you are replying to, using, for example:
~t
It is also useful for setting options and modifying aliases.

If you wish to abort the current message, you can use the escape

\(l\)

\(~q\)

\(l\)

This will terminate the current message and return you to the
shell (or \texttt{mail} if you were using the \texttt{mail} command).

If the \texttt{save} option is set, the message will be copied
to the file

\(.q\) dead.letter

in your home directory.

If you wish to abort the current message,
without saving any copy of it whatsoever,
even if the \texttt{save} option is set,
you can use the escape

\(l\)

\(~x\)

\(l\)

If you wish (for some reason) to send a message that contains
a line beginning with a tilde, you must double it. Thus, for example,

\(l\)

~~This line begins with a tilde.

\(l\)

sends the line

\(l\)

~This line begins with a tilde.

\(l\)

\(pp\)

Finally, the escape

\(l\)

\(~?\)

\(l\)

prints out a brief summary of the available tilde escapes.

\(pp\)

On some terminals (particularly ones with no lower case)
tilde's are difficult to type.

Mail
allows you to change the escape character with the
\(.q\) escape
option. For example, I set

\(l\)

set escape=]

\(l\)

and use a right bracket instead of a tilde. If I ever need to
send a line beginning with right bracket, I double it, just as for ~.
Changing the escape character removes the special meaning of ~.
.sh 2 "Network access"
.pp
This section describes how to send mail to people on other machines.
Recall that sending to a plain login name sends mail to that person
on your machine. If your machine is directly (or sometimes, even,
indirectly) connected to the Internet, you can send messages to people
on the Internet using a name of the form

.name@host.domain

where
.name
is the login name of the person you're trying to reach,
.host
is the name of the machine on the Internet,
and
.domain
is the higher-level scope within which the hostname is known, e.g. EDU (for educational
institutions), COM (for commercial entities), GOV (for governmental agencies),
ARPA for many other things, BITNET or CSNET for those networks.
.pp
If your recipient logs in on a machine connected to yours by
UUCP (the Bell Laboratories supplied network that communicates
over telephone lines), sending mail can be a bit more complicated.
You must know the list of machines through which your message must
travel to arrive at his site. So, if his machine is directly connected
to yours, you can send mail to him using the syntax:

.host!name

where, again,
.host
is the name of the machine and
.name
is the login name.
If your message must go through an intermediary machine first, you
must use the syntax:

.intermediary!host!name

and so on. It is actually a feature of UUCP that the map of all
the systems in the network is not known anywhere (except where people
decide to write it down for convenience). Talk to your system administrator
about good ways to get places; the
.uname
command will tell you systems whose names are recognized, but not which
ones are frequently called or well-connected.
When you use the `reply` command to respond to a letter, there is a problem of figuring out the names of the users in the `To:` and `Cc:` lists relative to the current machine. If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.

**Mail** uses a heuristic to build the correct name for each user relative to the local machine. So, when you `reply` to remote mail, the names in the `To:` and `Cc:` lists may change somewhat.

### Special recipients

As described previously, you can send mail to either user names or alias names. It is also possible to send messages directly to files or to programs, using special conventions. If a recipient name has a `/` in it or begins with a `+`, it is assumed to be the path name of a file into which to send the message. If the file already exists, the message is appended to the end of the file. If you want to name a file in your current directory (i.e., one for which a `/` would not usually be needed) you can precede the name with `./`

So, to send mail to the file `memo` in the current directory, you can give the command:

```bash
% Mail ./memo
```

If the name begins with a `+`, it is expanded into the full path name of the folder name in your folder directory. This ability to send mail to files can be used for a variety of purposes, such as maintaining a journal and keeping a record of mail sent to a certain group of users. The second example can be done automatically by including the full pathname of the record file in the alias.
command for the group. Using our previous .b alias example, you might give the command:

```
.l
alias project sam sally steve susan /usr/project/mail_record
```

Then, all mail sent to "project" would be saved on the file

```
.q /usr/project/mail_record
```

as well as being sent to the members of the project. This file can be examined using

```
.i "Mail \-f"
```

It is sometimes useful to send mail directly to a program, for example one might write a project billboard program and want to access it using

```
.i Mail
```

To send messages to the billboard program, one can send mail to the special name `|billboard' for example.

```
.i Mail
```

treats recipient names that begin with a `|' as a program to send the mail to. An .b alias can be set up to reference a `|' prefaced name if desired.

```
.i Caveats:
```

the shell treats `|' specially, so it must be quoted on the command line. Also, the `| program' must be presented as a single argument to mail. The safest course is to surround the entire name with double quotes. This also applies to usage in the .b alias command. For example, if we wanted to alias `rmsgs' to `rmsgs \-s' we would need to say:

```
.l
alias rmsgs "| rmsgs \-s"
```

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* javax.annotation:javax.annotation-api
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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.984 go-autorest-date v0.3.0

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1.1009 tiger-types 1.4

1.1010 x-time-rate v0.0.0-20210220033141-f8bda1e9f3ba

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1.1013 libnuma 2.0.11 2.1ubuntu0.1

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1.1016 curl 7.58.0 2ubuntu3.6
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1.1018 jetty-setuid-java 1.0.4

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1.1019 gnutls 3.6.8-8.el8

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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:
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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Library" must include any data and utility programs needed for
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which the executable runs, unless that component itself accompanies
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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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to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
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# Contributions to the urllib3 project

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* Better unicode support for filepost using StringIO buffers

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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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  * Fixed pickle support of some exceptions

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  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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  * Fixed a race condition

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  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

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* HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

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  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

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  * Support for standard library io module.

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  * Security Warning Documentation update for proper capture

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  * 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.

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  * App Engine environment tests.
  * Documentation re-write.

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* Clues to debugging problems with `cryptography` dependency in docs

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  * Bugfixes relating to cleanup of connections during errors.

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  * IPv6 HTTPS proxy bugfix

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  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
  * Creation of ``HTTPConnectionPool.ResponseCls``.

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  * Bugfix to ca_cert file paths.

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  * 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.

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  * 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.

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  * 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 Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* 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 `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded
* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.1034 paramiko 1.17.6-2.ph1

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include/GL/gl.h :

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----
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include/GL/glxext.h
include/GL/wglxext.h :

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## The Unicode Standard, Unicode Character Database, Version 12.1.0

### Unicode Character Database

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.1041 python-stdlib-extensions 3.6.9-1~18.04

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7.5/3.7/Lib/lib2to3/fixes/fix_buffer.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 ( Tara Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
 | NAME [Details] [Repeater]
 | '(' Alternatives ')' [Repeater]
 | [' Alternative ']* [Repeater]
 | [ ' Alternative ' ]
 )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives '))

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3-8.7.5.3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3-7.5.3.7/Lib/lib2to3/PatternGrammar.txt

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/parse.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/pgen2/converters.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.7/Lib/lib2to3/pgen2/converters.py
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^L

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This is a copyright notice
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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
author: root

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

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

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

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-*. org -. 

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

#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------------
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1.1056 sensible-utils 0.0.9+deb9u1

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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.>
Copyright (C) 19yy <name of author>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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The End

#!perl
=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message \'$copyright_msg\';
    $year;
}

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

1.1058 flag v1.7.4-pre
1.1058.1 Available under license:

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1.1059 libseccomp 2.4.3-1ubuntu3.18.04.3

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

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1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing:

    tar xvf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the
>>> import netifaces

Then if you enter

>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

[ 18: [...], 2: [...], 30: [...] ]

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

>>> netifaces.AF_LINK
18

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*. 
*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address.

Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': [2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') ]}
```
This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``'default'``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0.
Hopefully skipping the version number should remove any confusion. In
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-
  0.10.4/netifaces.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/PKG-
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* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-
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netifaces 0.10.4

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>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

{ 18: [...], 2: [...], 30: [...] }

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `\`AF_LINK`\` (which means the link layer interface, e.g. Ethernet), 2 is `\`AF_INET`\` (normal Internet addresses), and 30 is `\`AF_INET6`\` (IPv6).
But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
```
Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address. Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [(10.0.1.1, 'en0', True), (10.2.1.1, 'en1', False)], 30: [(fe80::1, 'en0', True)], 'default': {2: (10.0.1.1, 'en0'), 30: (fe80::1, 'en0')}}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``default``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
(10.0.1.1, 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever
operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?
-----------------------------------------------

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELIST for a more complete list of changes.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/README.rst
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Gocheck - A rich testing framework for Go

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

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

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1.1078 java-common 0.63ubuntu1~02

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1.1079 pycrypto 2.6.1-5.ph2
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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.1080 cpp 8.2.0-1ubuntu2~18.04
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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1.1092 csv 1.0.0

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1.1094 dataclasses 0.8

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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# # For testing:
#
sub main::diag {          
    warn join("", @_), "\n";
}           

print join(" ", merge(           
#print Data::Dumper -> Dump([           
#  merge(           
#    #[qw(a b c d h i j)], # ancestor           
#    #[qw(a b c d f h i j)], # left           
#    #[qw(a b c e g )], # right           
[ qw(0 1 2 3 4 7 9 b) ],           
[ qw(0 6 8 a b) ],           
[ qw(0 1 2 3 5 8 a b) ],           
##
  {           
    CONFLICT => sub ($$) { (           
      q{<}, @{$$_[0]}, q{[}, @{$$_[1]}, q{>}
    ) },           
  },           

), "\n";
#}), "\n";
#print join(" ", @{
#  [ qw(0 1 @ < 3 | # > 6)]
# }), "\n";


Algorithm::Merge - Three-way merge and diff

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge($ancestor, $a, $b, {
    CONFLICT => sub { }
});

@merged = merge($ancestor, $a, $b, {
    CONFLICT => sub { }, $key_generation_function);

$merged = merge($ancestor, $a, $b, {
    CONFLICT => sub { }
});

$merged = merge($ancestor, $a, $b, {
    CONFLICT => sub { }, $key_generation_function);

@diff = diff3($ancestor, $a, $b);

@diff = diff3($ancestor, $a, $b, $key_generation_function);

$diff = diff3($ancestor, $a, $b);

$diff = diff3($ancestor, $a, $b, $key_generation_function);

@trav = traverse_sequences3($ancestor, $a, $b, {
    # callbacks
});

@trav = traverse_sequences3($ancestor, $a, $b, {
    # callbacks
}, $key_generation_function);
$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
The first element in each row is the array with the difference:

- c - conflict (no two are the same)
- l - left is different
- o - original is different
- r - right is different
- u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

\[
q{\langle-.- START CONFLICT ----- ->},
\]
\[
(@left),
\]
\[
q{\langle-.- END CONFLICT ------ ->},
\]
\[
(@right),
\]

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.
=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.
If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff|Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

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NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);

@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});
trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
}, $key_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the 'original' list. The second list is
the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e g i j k
right: a b c d e h i j k
merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a',  'a',  'a' ],
[ 'u', 'b',  'b',  'b' ],
[ 'l', 'c',  undefined, 'c' ],
[ 'o', undefined, 'd',  'd' ],
[ 'u', 'e',  'e',  'e' ],
[ 'r', 'f',  'f',  undefined ],
[ 'o', 'h',  'g',  'h' ],
[ 'u', 'i',  'i',  'i' ],
[ 'o', undefined, 'j',  'j' ],
[ 'u', 'k',  'k',  'k' ]

The first element in each row is the array with the difference:
c - conflict (no two are the same)
l - left is different  
o - original is different  
r - right is different  
u - unchanged  

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->}.
```

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.
If one argument, then only the element at the given position from
the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence
that corresponds to the elements at the given positions in the
second and third sequences.

If three arguments, then the element at the given position in the
first sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.

B_DIFF
This is called if the second sequence is different than the other
two sequences at the current position. This callback will be called
with one, two, or three arguments.

If one argument, then only the element at the given position from
the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence
that corresponds to the elements at the given positions in the first
and third sequences.

If three arguments, then the element at the given position in the
second sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.

C_DIFF
This is called if the third sequence is different than the other two
sequences at the current position. This callback will be called with
one, two, or three arguments.

If one argument, then only the element at the given position from
the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence
that corresponds to the elements at the given positions in the first
and second sequences.

If three arguments, then the element at the given position in the
third sequence is different than the corresponding element in the
other two sequences, but the other two sequences have corresponding
elements.

CONFLICT
This is called if all three sequences have different elements at the
current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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1.1098 libnl3 1.1.1 4.el8

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1.1101 spf13-pflag v1.0.5

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*/

//--
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>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
* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>
* 
* Futurework: have this read version info from jar manifest.
* 
* @return String denoting our current version
*/
public static String getVersion()
{
}

/**
 * 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;
    }
}

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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
 * PIs, 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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*/

/**
* $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
public final class Version
{

    /**
     * Get the basic version string for the current Serializer.
     * 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: Serializer.
     */
    public static String getProduct()
    {
        return "Serializer";
    }

    /**
     * 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;
}
}

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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.
*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /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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*/
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/** The 'document-location()' id (Proprietary). */

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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.utilErrorMsg;

decode {:
/**
 * Used by function calls with no args.
 */
 static public final Vector EmptyArgs = new Vector();
/**
static public final VariableRef DummyVarRef = null;

private Parser _parser;
private XSLTC _xsltc;

private String _expression;

private int _lineNumber = 0;

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) {
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 "*" 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;
        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    } 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) ? _xslt.registerAttribute(name)
: _xslt.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 :
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
        : _xslt.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) ? _xslt.registerAttribute(name)
        : _xslt.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);
    }
    return null;
}
/**
 * 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, PIPE, 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;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;
non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;
non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
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 DCOLON;

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
    [: RESULT = new AncestorPattern(rpp); :]
    | RelativePathPattern: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 ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

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); } |

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
| { // |}
// Expand '//' into /descendant-or-self::node()/*
// into /descendant-or-self::*/

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
    {:}
    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
    {: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
AbbreviatedAbsoluteLocationPath ::= 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);
}
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, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    |
    |
Step ::= NodeTest:ntest
    |
    |
    |
    | NodeTest:ntest Predicates:pp
    |
    |}
else {
    RESULT = new Step(Axis.CHILD, 
        parser.findNodeType(Axis.CHILD, ntest), pp);
}

<table>
<thead>
<tr>
<th>AxisSpecifier:axis NodeTest:ntest Predicates:pp</th>
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</thead>
</table>
| :: RESULT = new Step(axis.intValue(), 
|     parser.findNodeType(axis.intValue(), ntest), 
<p>|     pp); |
|</p>
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<tr>
<th>AbbreviatedStep:abbrev</th>
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| :: RESULT = abbrev; : |}

AxisSpecifier ::= AxisName:an DCOLON |
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<th>ATSIGN</th>
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| :: RESULT = new Integer(Axis.ATTRIBUTE); : |}

AxisName ::= ANCESTOR |
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<td>:: RESULT = new Integer(Axis.ANCESTOR); :</td>
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<th>ANCESTORORSELF</th>
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<td>:: RESULT = new Integer(Axis.ANCESTORORSELF); :</td>
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<td>:: RESULT = new Integer(Axis.CHILD); :</td>
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<th>DESCENDANT</th>
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<td>:: RESULT = new Integer(Axis.DESCENDANT); :</td>
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<th>DESCENDANTORSELF</th>
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<td>:: RESULT = new Integer(Axis.DESCENDANTORSELF); :</td>
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<th>FOLLOWING</th>
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<tr>
<td>:: RESULT = new Integer(Axis.FOLLOWING); :</td>
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</tbody>
</table>
| 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); :

| 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); |
| : } |

| 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)) |
| RESULT = new KeyCall(fname, argl); |
| parser.setHasIdCall(true); |
| } |
| 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(Translet.TARGETNS, "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);
}
RESULT = temp;
;
| 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 := QName:qname
   { RESULT = parser.getQNameIgnoreDefaultNs(qname); }

| QName:qn |
| : RESULT = qn; |

| 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"); |
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup
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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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 */

/*
 * Execute the proprietary document-location() function, which returns a node set of documents.
 * @xsl.usage advanced
 */

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 */
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.LE:
    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

Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOOLON:
        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.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-\u00F6\u00F8-\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\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1\u30FA\u3105-\u312C\uAC00-\uD7A3]
Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]
CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-

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*/

/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
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 nth 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.

```java
public static final int DEVELOPMENT = 0;

/**
 * Version String like &lt;CODE&gt;"<B>Xalan</B> <B>Language</B>&lt;/B&gt; v.r[.dd| <B>D</B>nn]"&lt;/CODE&gt;.
 * <P>Semantics of the version string are identical to the Xerces project.&lt;/P&gt;
 */
public static final String S_VERSION = PRODUCT + "+" + LANGUAGE + " "+VERSION+." +RELEASE+." + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) : ("" + MAINTENANCE));
}
```

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* /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/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

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* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
1.1103 jackson-dataformat-yaml 2.9.10

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key",omitempty`  
    Name *string `json:"name",omitempty`  
    URL  *string `json:"url",omitempty`  
    HTMLURL        *string   `json:"html_url",omitempty` 
    Featured       *bool     `json:"featured",omitempty` 
    Description    *string   `json:"description",omitempty"`  
    Category       *string   `json:"category",omitempty"`  
    Implementation *string   `json:"implementation",omitempty"`  
    Required       *[]string `json:"required",omitempty"` 
    Permitted      *[]string `json:"permitted",omitempty"` 
    Forbidden      *[]string `json:"forbidden",omitempty"` 
    Body           *string   `json:"body",omitempty"` 
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}
/ Fetch extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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

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package github
import (
"fmt"
"net/http"
"reflect"
"testing"
)
func TestLicensesService_List(t *testing.T) {
setup()
defer teardown()
mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `[{"key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"}]`)
})
licenses, _, err := client.Licenses.List()
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}
want := []License{License{
Key: String("mit"),

Open Source Used In RCM 21.25 10677


Name: String("MIT"),
URL: String(https://api.github.com/licenses/mit),
}
if !reflect.DeepEqual(licenses, want) {
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
setup()
defer teardown()

mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
testHeader(t, r, "Accept", mediaTypeLicensesPreview)
fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})

license, _, err := client.Licenses.Get("mit")
if err != nil {
t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !reflect.DeepEqual(license, want) {
t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
_, _, err := client.Licenses.Get("%")
testURLParseError(t, err)
}

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1.1110 classmate 1.5.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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To apply these terms, attach the following notices to the library.
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effectively convey the exclusion of warranty; and each file should
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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!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

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

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <inneul@umr.edu>,

Open Source Used In RCM 21.25 10695
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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

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

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

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

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...]
> On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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> -mike

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

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GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

Unlike the old license, GPL-2 prevents people from using cracklib unless their
applications are also GPL-2 which IMO is just wrong. It isn't the place of
library to dictate to application writers what license they should be using.=
thus LGPL-2.1 enters to fill this void.

dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

-a

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

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

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

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

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

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
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=2Dmike

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
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> > > > > additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

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

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

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

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

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

-mike

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

-a

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

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

Nathan Neulinger is the only one who can actually said change ...
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

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

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

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

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

-----------------------------
> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.

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

Happy now? :-)

-a

1.1115 jdk-zulu 8.46.0.19

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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\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, 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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1.1125 python 3.6.9 1~18.04ubuntu1.4

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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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hostname -- set the host name or show the host/domain name

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jar/javassist/compiler/NoFieldException.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassClassPath.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotInvokeException.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAfter.java
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1.1152 jetty-io 9.4.16.v20190411

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1154 binutils 2.15.94
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lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h
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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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1.1164 xauth 1.0.10-1

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1.1169 go-systemd v0.0.0-20180511133405-39ca1b05acc7

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1.1170 okhttp 3.12.12

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  jar/okhttp3/internal/http/HttpCodec.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Connection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Headers.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Settings.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

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1.1172 base-files 9.9+deb9u12

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1.1181 go-runewidth v0.0.3

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1.1184 zjsonpatch 0.3.0

1.1185 pcre 8.39-3

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1.1190 openjdk-jre 1.8.0u192

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## xwd v1.0.7
### xwd utility
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.1203 google-uuid v1.1.1
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1.1204 libassuan 2.5.1 2
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stringio.c -

$Author$
$RoughId: stringio.c,v 1.13 2002/03/14 03:24:18 nobu Exp$
created at: Tue Feb 19 04:10:38 JST 2002

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/**************************************************************/

Found in path(s):
* /opt/cola/permits/1112082522_1607034672.43/0/stringio-0-0-1-1-gem/data-tar-gz/stringio.c

1.1208 x-text v0.3.4
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1.1209 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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 * Rob Earhart
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1.1211 findutils 4.6.0+git+20170828 2

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1.1214 jinja2 3.0.1

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Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.1
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Changes, https://jinja.palletsprojects.com/changes/
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Description: Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
---------

Install and update using `pip`:

.. code-block:: text

   $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

   {% extends "base.html" %}
   {% block title %}Members{% endblock %}
   {% block content %}
   <ul>
   {% for user in users %}
   <li><a href="{{ user.url }}">{{ user.username }}</a></li>
   {% endfor %}
   </ul>
   {% endblock %}

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- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1166437412_1621420347.71/0/jinja2-3-0-1-tar-gz/Jinja2-3.0.1/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1166437412_1621420347.71/0/jinja2-3-0-1-tar-gz/Jinja2-3.0.1/PKG-INFO
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No license file was found, but licenses were detected in source scan.

[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
  package_dir = = src
  include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
error

[coverage:run]
branch = True
source =
jinja2
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped defs = True
disallow_incomplete defs = True
no_implicit Optional = True
local_partial_types = True
no_implicit reexport = True
strict_equality = True
warn_redundant casts = True
warn_unused_configs = True
warnUnused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1166437412_1621420347.71/0/jinja2-3-0-1-tar-gz/Jinja2-3.0.1/setup.cfg

1.1215 busybox 1.29.3
1.1215.1 Available under license :

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.. _contrib:

=============
click-contrib
==============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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1.1228 vim 8.0.1453-1ubuntu1.4

1.1229 sensible-utils 0.0.12

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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   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
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
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.

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This is a bundle of X.509 certificates of public Certificate Authorities
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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
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@(#) $RSFile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1243 file 5.32-2ubuntu0.4

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1.1244 cpp 7.5.0 3ubuntu1~18.04

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of
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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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Component, and (b) serves only to enable use of the work with that
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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# 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

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

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  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

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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>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* 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.

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  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.1275 python 2.7.17-1~18.04ubuntu1.6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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

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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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1.1288 ruby-power-assert 0.3.0 1

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1291 shadow 4.5 1ubuntu2

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Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_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 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

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/protobuf>`_ 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.
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
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/ws_local/PERMITS_SQL/1063015436_1592948938.14/0/pyasn1-0.4.5-1-tar-gz/pyasn1-0.4.5/docs/source/contents.rst`

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THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
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:

```
```

Could be expressed in `pyasn1` like this:

```
```

```bash
Record ::= SEQUENCE { 
  id INTEGER, 
  room [0] INTEGER OPTIONAL, 
  house [1] INTEGER DEFAULT 0 
}
```

```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)
00000: 30 07 02 01 7B 80 02 01 41
``` 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
```

```python
>>> 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
```

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

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

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

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

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

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

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

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

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

   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1305 json-glib 1.4.4-1.el8

1.1305.1 Available under license:

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1.1306 libnetfilter-cttimeout 1.0.0 11.el8

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a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1323 commons-lang3 3.1

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1.1336 curl 7.61.1-11.el8
1.1336.1 Available under license:

License Mixing

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

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.
I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

## NSS

(May be used for SSL/TLS support) Is covered by the [MPL](https://www.mozilla.org/MPL/) license, the GPL license and the LGPL license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.
## axTLS

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

## mbedTLS

(May be used for SSL/TLS support) Uses the [Apache 2.0 license](https://opensource.org/licenses/Apache-2.0) or the GPL license. You may choose to license the code under Apache 2.0 terms or GPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

## BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

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

## zlib

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

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link
and use any Original BSD licensed libraries!

## libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license. COPYRIGHT AND PERMISSION NOTICE

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1.1337 libalgorithm-diff-perl 1.19.03-1
1.1337.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_c $opt_u $opt_C $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
 -c will do a context diff with 3 lines of context
 -C will do a context diff with 'lines' lines of context
 -u will do a unified diff with 3 lines of context
 -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = "";  # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = "";  # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = "";  # by default, do context diff, not old diff
}

my ($char1, $char2);  # string to print before file names
my $Context_Lines;  # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;
# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
  $hunk = new Hunk ($piece, $Context_Lines);
  next unless $oldhunk;
  if ($hunk->does_overlap($oldhunk)) {
    $hunk->prepend_hunk($oldhunk);
  } else {
    $oldhunk->output_diff(\@f1, \@f2);
  }
}
continue {
  $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;

# END MAIN PROGRAM

sub bag {
  my $msg = shift;
  $msg .= "\n";
  warn $msg;
  exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
  package Hunk;

  sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g.,) of context around each block

# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks - a list of Block objects
# start   - index in file 1 where first block of the hunk starts
# end     - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#               until but NOT including this one
# after_diff  - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_;

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{'length_diff'};
$File_Length_Difference += $block->{'length_diff'};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;

my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->{'item_no'} : -1;
$a2 = @remove_array ? $remove_array[-1]->{'item_no'} : -1;
$b1 = @insert_array ? $insert_array[0]->{'item_no'} : -1;
$b2 = @insert_array ? $insert_array[-1]->{'item_no'} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);
return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($hunk, $context_items) = @_;;
  return unless $context_items; # no context

  # add context before
  my $start1 = $hunk->{"start1"};
  my $num_added = $context_items > $start1 ? $start1 : $context_items;
  $hunk->{"start1"} -= $num_added;
  $hunk->{"start2"} -= $num_added;

  # context after
  my $end1 = $hunk->{"end1"};
  $num_added = ($end1+$context_items > $#f1) ?
    $#f1 - $end1 :
    $context_items;
  $hunk->{"end1"} += $num_added;
  $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
  return "" unless $oldhunk; # first time through, $oldhunk is empty

  # Do I actually need to test both?
  return ($hunk-}>{"start1"} - $oldhunk-}>{"end1"} <= 1 ||
    $hunk-}>{"start2"} - $oldhunk-}>{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
  my ($hunk, $oldhunk) = @_;;

  $hunk-}>{"start1"} = $oldhunk-}>{"start1"};
  $hunk-}>{"start2"} = $oldhunk-}>{"start2"};

  unshift @{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}
# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...

sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a ' ' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*---don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist;  # assume it's just context

    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"};  # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            @outlist[$offset] =~ s/^/$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"};  # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0,"$op$fileref2[$i]");
            $num_added++;
        }
    }
    map {s/$/
    print @outlist;  # add \n's
sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    print "***************\n";
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****\n";
    my $low = $hunk->{"start1"};
    my $hi  = $hunk->{"end1"};
    if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/
/} @outlist; # add \n's
        print @outlist;
    }

    print "--- $range2 ----\n";
    $low = $hunk->{"start2"};
    $hi  = $hunk->{"end2"};
    if (@blocklist = grep {$_.->insert} @{$hunk->{"blocks"}}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # + or !
            foreach my $item ($block->insert) {
                $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
            }
        }
        map {s/$/
/} @outlist; # add \n's
        print @outlist;
    }
}

sub context_range {
    }
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;  
my ($start, $end) = ( $hunk->{"start$flag"}, $hunk->{"end$flag"});  
$start++; $end++;  # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;

sub unified_range {  
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;  
my ($start, $end) = ( $hunk->{"start$flag"}, $hunk->{"end$flag"});  
$start++; $end++;  # index from 1, not zero
my $length = $end - $start + 1;  
my $first = $length < 2 ? $end : $start;  # strange, but correct...
my $range = $length== 1 ? $first : "$first,$length";
return $range;
}  
}  # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {  
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign        - '+' for insert, '-' for remove
# item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;  
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {  
my ($sign, $item_no, $text) = @$item;
my $hashref = { "sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;
$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}
# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }
# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
} # end of package Block
Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.
=head1 NAME
Algorithm::Diff - Compute `intelligent' differences between two files / lists
=head1 SYNOPSIS
require Algorithm::Diff;
# This example produces traditional 'diff' output:
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

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$diff->Base(1); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = " ";
    if( !$diff->Items(2) ) {
        printf "%d,%.dd%.dn",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( !$diff->Items(1) ) {
        printf "%da%d,%.d
",
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%.d%.c%.d%.d\n",
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
        DISCARD_A => \&callback2,
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

\[
\begin{align*}
a & \ b & \ c & \ d & \ f & \ g & \ h & \ j & \ q & \ z \\
a & \ b & \ c & \ d & \ e & \ f & \ g & \ i & \ j & \ k & \ r & \ x & \ y & \ z
\end{align*}
\]

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

\[
a & \ b & \ c & \ d & \ f & \ g & \ j & \ z
\]

From there it's only a small step to get diff-like output:

\[
e & \ h & \ i & \ k & \ q & \ r & \ x & \ y
\]
This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
  a &\ x &\ b &\ y &\ c &\ z &\ p &\ d &\ q \\
  a &\ b & c & a & b & y & c & z \\
\end{align*}
\]

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

\[
\begin{align*}
  a &\ x &\ b & y & c &\ z & p &\ d & q \\
  a & b & c & a & b & y & c & z \\
\end{align*}
\]

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

\[
\begin{align*}
  a &\ x & b & y & c & z & p &\ d & q \\
  a & b & c & a & x & b & y & c & z \\
\end{align*}
\]

or

\[
\begin{align*}
  a & x & b & y & c & z & p & d & q \\
  a & b & c & a & x & b & y & c & z \\
\end{align*}
\]

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\[
@\text{lcs} = \text{LCS}( \@\text{seq1}, \@\text{seq2} );
\]
$lcsref = LCS( \@seq1, \@seq2 );

C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

    @lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
    $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

    my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
    my @list1 = @seq1[ @$idx1 ];
    my @list2 = @seq2[ @$idx2 ];
    my @list3 = LCS( \@seq1, \@seq2 );

=head2 C<new>

$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );

C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

You use the object to iterate over I<hunks>, where each hunk represents
a contiguous section of items which should be added, deleted, replaced,
or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code
but some of the symbols have different meanings:
Method summary:

```perl
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```}

```perl
<bits = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@index|$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move
to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);
$copy = $diff->Copy()->Reset();

=over 4

=back

=item C<Diff>

<bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>
$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then `C<< $diff->Items(1) >>` will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then `C<< $diff->Items(2) >>` will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both `C<< $diff->Items(1) >>` and `C<< $diff->Items(2) >>` will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```perl
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item C<Range>

```perl
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```perl
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```perl
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>

```perl
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is
used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base);
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]/i
/^((range[12]|same|diff|base))/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

```
$prep = prepare( \@seq1 );
```
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}

C<\texttt{prepare}> may be passed an optional third parameter; this is a \texttt{CODE}
reference to a key generation function. See \texttt{L</KEY GENERATION
FUNCTIONS>}
.

$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}

Using \texttt{C<prepare>} provides a performance gain of about 50\% when calling LCS
many times compared with not preparing.

=head2 C<\texttt{diff}>

@diffs = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );

\texttt{C<diff>} computes the smallest set of additions and deletions necessary
to turn the first sequence into the second, and returns a description
of these changes. The description is a list of \texttt{I<hunks>}; each hunk
represents a contiguous section of items which should be added,
deleted, or replaced. (Hunks containing unchanged items are not
included.)

The return value of \texttt{C<diff>} is a list of hunks, or, in scalar context, a
reference to such a list. If there are no differences, the list will be
empty.

Here is an example. Calling \texttt{C<diff>} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
(  
[ [ '-' , 0 , 'a' ] ],

[ [ '+' , 2 , 'd' ] ],
\end{verbatim}
[ [ '-', 4, 'h' ],
[ '+', 4, 'f' ] ],
[ [ '+', 6, 'k' ] ],
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.
Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to

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be displayed side-by-side.

An \texttt{C<sdiff>} of the following two sequences:

\begin{verbatim}
a b c e h j l m n p b c d e f j k l m r s t
\end{verbatim}

results in

\begin{verbatim}
( [ '-', 'a', '' ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', '', 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', '', 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', '', 't' ],
)
\end{verbatim}

\texttt{C<sdiff>} may be passed an optional third parameter; this is a CODE reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}. Additional parameters, if any, will be passed to the key generation routine.

=head2 \texttt{C<compact_diff>}

\texttt{C<compact_diff>} is much like \texttt{C<sdiff>} except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

\begin{verbatim}
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
#      @a     @b     @a     @b
# start start values values
( 0,  0,  # =
 0,  0,  # a !
 1,  0,  # b c = b c
 3,  2,  # ! d
 3,  3,  # e = e
\end{verbatim}
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items \$diff[0] through \$diff[2] - 1 of the first sequence and contains items \$diff[1] through \$diff[3] - 1 of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair   2nd pair
# of indices of indices
@list1 = @a[ \$diff[0] .. \$diff[2]-1 ];
@list2 = @b[ \$diff[1] .. \$diff[3]-1 ];
# Hunk start Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note
that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```perl
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to
the last items in each sequence.

\texttt{C<traverse\_sequences>}

\texttt{C<traverse\_sequences>} used to be the most general facility provided by
this module (the new OO interface is more powerful and much easier to
use).

Imagine that there are two arrows. Arrow A points to an element of
sequence A, and arrow B points to an element of the sequence B.
Initially, the arrows point to the first elements of the respective
sequences. \texttt{C<traverse\_sequences>} will advance the arrows through the
sequences one element at a time, calling an appropriate user-specified
callback function before each advance. It will advance the arrows in
such a way that if there are equal elements \texttt{C<$A[i]$>} and \texttt{C<$B[j]$>}
which are equal and which are part of the LCS, there will be some moment
during the execution of \texttt{C<traverse\_sequences>} when arrow A is pointing
to \texttt{C<$A[i]$>} and arrow B is pointing to \texttt{C<$B[j]$>}. When this happens,
\texttt{C<traverse\_sequences>} will call the \texttt{C<\textless \text{MATCH} \textgreater>} callback function and then
it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence
that is not part of the LCS. \texttt{C<traverse\_sequences>} will advance that
arrow and will call the \texttt{C<\textless \text{DISCARD\_A} \textgreater>} or the \texttt{C<\textless \text{DISCARD\_B} \textgreater>} callback,
depending on which arrow it advanced. If both arrows point to elements
that are not part of the LCS, then \texttt{C<traverse\_sequences>} will advance
one of them and call the appropriate callback, but it is not specified
which it will call.

The arguments to \texttt{C<traverse\_sequences>} are the two sequences to
traverse, and a hash which specifies the callback functions, like this:

\begin{verbatim}
traverse_sequences(
    \@seq1, \@seq2,
    \{   MATCH => $callback_1,
         DISCARD_A => $callback_2,
         DISCARD_B => $callback_3,
    \}
);:
\end{verbatim}

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least
the indices of the two arrows as their arguments. They are not expected
to return any values. If a callback is omitted from the table, it is
not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the
corresponding index in A or B.
If arrow A reaches the end of its sequence, before arrow B does, \nC<traverse_sequences> will call the C<A_FINISHED> callback when it \nadvances arrow B, if there is such a function; if not it will call \nC<DISCARD_B> instead. Similarly if arrow B finishes first. \nC<traverse_sequences> returns when both arrows are at the ends of their \nrespective sequences. It returns true on success and false on failure. \nAt present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this \nis a CODE reference to a key generation function. See L</KEY GENERATION \nFUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't \nneed a custom key generation function, you can get the default by \npassing undef:

traverse_sequences( \n  \@seq1, \@seq2, \n  \{   MATCH => $callback_1, \n      DISCARD_A => $callback_2, \n      DISCARD_B => $callback_3, \n  \}, \n  undef,    # default key-gen \n  $myArgument1, \n  $myArgument2, \n  $myArgument3, \n);

C<traverse_sequences> does not have a useful return value; you are \nexpected to plug in the appropriate behavior with the callback \nfunctions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It \nuses a different algorithm to iterate through the entries in the \ncomputed LCS. Instead of sticking to one side and showing element changes \nas insertions and deletions only, it will jump back and forth between \nthe two sequences and report I<changes> occurring as deletions on one \nside followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C.MATCH> callbacks \nsupported by C<traverse_sequences>, C<traverse_balanced> supports \na C<CHANGE> callback indicating that one element got C<replaced> by another:

traverse_balanced(}
\@seq1, \@seq2,
{   MATCH => $callback_1,
    DISCARD_A => $callback_2,
    DISCARD_B => $callback_3,
    CHANGE    => $callback_4,
}
);

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "=".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

package Person;

sub new
{
    my $package = shift;
    return bless { name => ", ssn => ", @_ }, $package;
sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted
into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN)
would be seen as different objects. If you wanted them to be considered
equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, &Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and
so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function
if you wish.
=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

@diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

=cut

Found in path(s):
  * /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
  * /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

=cut
foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    printf "%-4d$sign %s\n", $lineno+1, $text;
}
print "--------\n";
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.1338 mpdecimal 2.4.2-1ubuntu1

1.1338.1 Available under license:
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: mpdecimal
Source: http://www.bytereef.org/mpdecimal/download.html

Files: *
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1.1339 log-rotate 3.11.0 0.1ubuntu1

1.1339.1 Available under license :

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1.1340 python-defaults 2.7.15~rc1-1
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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

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

A. HISTORY OF THE SOFTWARE
============================

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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Files-Excluded:
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AC_DEFUN([gl_CANONICALIZE_LGPL],
[
  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  if test $ac_cv_func_canonicalize_file_name = no; then
    AC_LIBOBJ(canonicalize-lgpl)
    AC_DEFINE([realpath], [rpl_realpath],
      [Define to a replacement function name for realpath().])
    gl_PREREQ_CANONICALIZE_LGPL
  fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
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1.1346 libtls-standalone 2.9.1-r0

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
1.1349 apt 1.4.9

1.1349.1 Available under license:
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1.1351 logrus v1.4.2

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1.1352 libjpeg 6b

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
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TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing “real-world” scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

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

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


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
In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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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

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

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.

1.1353 jackson-xc 2.9.8

1.1354 metrics 4.1.12.1

1.1354.1 Available under license:

Metrics

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Maik Hentsche <netfilter@mm-double.de>:
- Feedback & Brainstorming
- Bug hunting

---

1.1360 libvmtools 11.0.5-4ubuntu0.18.04.1

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Open-vm-tools v10.3.0

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>>> freebsd-base64-4.8
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1.1361 zope-interface 4.3.2 1build2

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package github

import "fmt"

// LicensesService handles communication with the license related 
// methods of the GitHub API. 
//
type LicensesService struct {
  client *Client
}

// License represents an open source license. 
type License struct {
  Key   *string `json:"key",omitempty`
  Name   *string `json:"name",omitempty`
  URL    *string `json:"url",omitempty`
  HTMLURL        *string   `json:"html_url",omitempty`
  Featured       *bool     `json:"featured",omitempty`
  Description    *string   `json:"description",omitempty`
  Category       *string   `json:"category",omitempty`
  Implementation *string   `json:"implementation",omitempty`
  Required       *[]string `json:"required",omitempty`
  Permitted      *[]string `json:"permitted",omitempty`
  Forbidden      *[]string `json:"forbidden",omitempty`
  Body           *string   `json:"body",omitempty`
}

func (l License) String() string {
  return Stringify(l)
}
```
// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    licenses := new([]License)
    resp, err := s.client.Do(req, licenses)
    if err != nil {
        return nil, resp, err
    }

    return *licenses, resp, err
}

// Fetch extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(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
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, err
}

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string

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

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package github

import (  "fmt"  "net/http"  "reflect"  "testing"
func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `[
            "key": "mit",
            "name": "MIT",
            "url": "https://api.github.com/licenses/mit"
        ]`)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{
        License{
            Key: String("mit"),
            Name: String("MIT"),
            URL: String("https://api.github.com/licenses/mit"),
        }
    }
    if !reflect.DeepEqual(licenses, want) {
        t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
    }
}

func TestLicensesService_Get(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprintf(w, `"key": "mit",
            "name": "MIT"
        `)
    })

    license, _, err := client.Licenses.Get("mit")
    if err != nil {
        t.Errorf("Licenses.Get returned error: %v", err)
    }

    want := &License{
        Key: String("mit"),
        Name: String("MIT")
    }
    if !reflect.DeepEqual(license, want) {
        t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
    }
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    _, _, err := client.Licenses.Get("%")
    testURLParseError(t, err)
}

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1.1400 libsepol 2.9-1.el8

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1.1404 libusb 1.0.21-2

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

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

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

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

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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1.1413 xxhash v2.1.1

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1.1417 netifaces 0.10.4
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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.4

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

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status
1. What is this?
----------------
It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?
-------------------
First you need to install it, which you can do by typing::

    tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following::

    >>> import netifaces

Then if you enter

    >>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

    >>> netifaces.ifaddresses('lo0')
    {18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

    {18: [...], 2: [...], 30: [...]}

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is "AF_LINK" (which means
the link layer interface, e.g. Ethernet), 2 is `\`AF_INET`` (normal Internet
addresses), and 30 is `\`AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are
system dependent; fortunately, I thought of that when writing netifaces, so
the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one
entry for each address family for which this interface has an address. Let's
take a look at the `\`AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's
possible for an interface to have more than one address, even within the
same family. I'll say that again: *you can have more than one address of
the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address,
and, because it's a loopback interface, it's point-to-point and therefore
has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[['broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'],
 ['broadcast': '192.168.0.255', 'addr': '192.168.0.47']]
```

This interface has two addresses (see, I told you...) Both of them are
regular IPv4 addresses, although in one case the netmask has been changed
from its default. The netmask *may not* appear on your system if it's set
to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that
is, the hardware address of the Ethernet adapter running this interface. We
can do
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement "SIOCGIFHWADDR". Note also that you just get the address; it's unlikely that you'll see anything else with an "AF_LINK" address. Oh, and don't assume that all "AF_LINK" addresses are Ethernet; you might, for instance, be on a Mac, in which case:

>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}

This dictionary is keyed on address family---in this case, "AF_INET"---and each entry is a list of gateways as "(address, interface, is_default)" tuples. Notice that here we have two separate gateways for IPv4 ("AF_INET"); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value "default", which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for "AF_INET".

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the
``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?
-----------------------------------------------

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Platform: UNKNOWN
1. What is this?

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following::

```python
>>> import netifaces

Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{"addr": ","}, 2: [{"peer": '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{"peer": ':1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {"peer": ",", 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

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>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

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>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{"peer": '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.
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>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

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```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address.

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```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

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```
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>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `'AF_INET'`.

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* /opt/cola/permits/1119811825_1609793496.72/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/setup.py

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1.1418 **geoip-database 20180315-1**

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1.1419 gobject-introspection 1.56.1-1.el8

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```
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```

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cpackage cmd

cfunc 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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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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package cmd

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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
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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
    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
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("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 ""
}

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
    }
}
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`,

```go
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 it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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```
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
    it under the terms of the GNU Affero General Public License as published by
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cpackage cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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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
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1.1431 ncurses 6.1-1ubuntu1.18.04

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1.1432 numcpus v0.2.2
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1.1450 adduser 3.116ubuntu1  

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschluss.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.1451 jackson-module-parameter-names

2.9.10

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

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# Contribors to oauth2client

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* [Jon Wayne Parrott](https://github.com/jonparrott)
* [Danny Hermes](https://github.com/dhermes)

Previous maintainers:

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