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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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```
usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
```

1.2 diffutils 3.6

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Version 3, 29 June 2007

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1.5 sqlite 3.23.1

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1.7 smartmontools 6.5 1.el7

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1.8 pcre 8.42

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1.9 rsync 3.1.3

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@subheading END OF TERMS AND CONDITIONS

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

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```
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```

```
/* setjmp is implemented in setjmp.S */
```

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1.11.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.12 free-type 2.9.1

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#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
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src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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1.14 python 2.7.16

1.15 sqlite 3.30.1

1.16 zlib 1.2.8

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1.18 zlib 1.2.5

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

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

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.. _history-and-license:

History and License

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

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

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

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Release	Derived from	Year	Owner	GPL compatible?
0.9.0 thru 1.2	n/a	1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes	
+-----+-----+-----+-----+-----+					
1.6	1.5.2	2000	CNRI	no	
+-----+-----+-----+-----+-----+					
2.0	1.6	2000	BeOpen.com	no	
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1.6.1	1.6	2001	CNRI	no	
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2.1	2.0+1.6.1	2001	PSF	no	
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2.1.3					
	2.1.2	2002	PSF	yes	
+-----+-----+-----+-----+-----+					
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

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

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

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Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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test_epoll

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Select kqueue

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SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphhash24/little)

djb (supercop/crypto_auth/siphhash24/little2)

Jean-Philippe Aumasson
(<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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1.22 kerberos 1.16

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
```

lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript"
src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
  <link rel="copyright" title="Copyright" href="copyright.html" />
  <link rel="next" title="Copyright" href="copyright.html" />
  <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```

<div class="rel">

<a href="index.html" title="Full Table of Contents"
  accesskey="C">Contents</a> |
<a href="mitK5features.html" title="MIT Kerberos features"
  accesskey="P">previous</a> |
<a href="copyright.html" title="Copyright"
  accesskey="N">next</a> |
<a href="genindex.html"
title="General Index"
  accesskey="I">index</a> |
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
</div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
<div class="document">

<div class="documentwrapper">
<div class="bodywrapper">
<div class="body" role="main">

<div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
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The implementations of

GSSAPI mechglue in GSSAPI-SPNEGO in

`src/lib/gssapi`, including the following files:

```
lib
gssapi
generic
gssapi_err_generic
et
lib
gssapi
mechglue
g_accept_sec_context
c
lib
gssapi
```

[illegible]


```

class="o">./span><span class="n">c</span>
<span class="n">lib</span><span class="o">./span><span class="n">gssapi</span><span
class="o">./span><span class="n">mechglue</span><span class="o">./span><span
class="n">mglueP</span><span class="o">./span><span class="n">h</span>
<span class="n">lib</span><span class="o">./span><span class="n">gssapi</span><span
class="o">./span><span class="n">mechglue</span><span class="o">./span><span
class="n">oid_ops</span><span class="o">./span><span class="n">c</span>
<span class="n">lib</span><span class="o">./span><span class="n">gssapi</span><span
class="o">./span><span class="n">spnego</span><span class="o">./span><span
class="n">gssapiP_spnego</span><span class="o">./span><span class="n">h</span>
<span class="n">lib</span><span class="o">./span><span
class="n">gssapi</span><span class="o">./span><span class="n">spnego</span><span
class="o">./span><span class="n">spnego_mech</span><span class="o">./span><span class="n">c</span>
</pre></div>

```

and the initial implementation of incremental propagation, including the following new or changed files:

```

<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span
class="o">./span><span class="n">iprop_hdr</span><span class="o">./span><span class="n">h</span>
<span class="n">kadmin</span><span class="o">./span><span class="n">server</span><span
class="o">./span><span class="n">ipropd_svc</span><span class="o">./span><span class="n">c</span>
<span class="n">lib</span><span class="o">./span><span class="n">kdb</span><span class="o">./span><span
class="n">iprop</span><span class="o">./span><span class="n">x</span>
<span class="n">lib</span><span class="o">./span><span class="n">kdb</span><span class="o">./span><span
class="n">kdb_convert</span><span
class="o">./span><span class="n">c</span>
<span class="n">lib</span><span class="o">./span><span class="n">kdb</span><span class="o">./span><span
class="n">kdb_log</span><span class="o">./span><span class="n">c</span>
<span class="n">lib</span><span class="o">./span><span class="n">kdb</span><span class="o">./span><span
class="n">kdb_log</span><span class="o">./span><span class="n">h</span>
<span class="n">lib</span><span class="o">./span><span class="n">krb5</span><span
class="o">./span><span class="n">error_tables</span><span class="o">./span><span
class="n">kdb5_err</span><span class="o">./span><span class="n">et</span>
<span class="n">kprop</span><span class="o">./span><span class="n">kpropd_rpc</span><span
class="o">./span><span class="n">c</span>
<span class="n">kprop</span><span class="o">./span><span class="n">kproplog</span><span
class="o">./span><span class="n">c</span>
</pre></div>
</div>

```

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

.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
```

lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/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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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
```

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/\* -\*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -\*- \*/

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 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
 <title>Copyright — MIT Kerberos Documentation</title>
 <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
 <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
 <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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 HAS_SOURCE: true,
 SOURCELINK_SUFFIX: '.txt'
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 <link rel="copyright" title="Copyright" href="#" />
 <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
 <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
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 <h1>MIT Kerberos Documentation</h1>
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<a href="mitK5license.html" title="MIT Kerberos License information"
 accesskey="P">previous |
<a href="build_this.html" title="How to build this documentation from the
source"
 accesskey="N">next |
<a href="genindex.html" title="General Index"
 accesskey="I">index |
<a href="search.html" title="Enter search criteria"
 accesskey="S">Search |
feedback
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</div>
</div>

<div class="content-wrapper">
<div class="content">
<div class="document">

<div class="documentwrapper">
<div class="bodywrapper">
<div class="body" role="main">

<div class="section" id="copyright">
<h1>Copyright</h1>
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</div>

</div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>

Copyright


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```

<h2>Table of contents</h2>

<li class="toctree-l1">For users
<li class="toctree-l1">For administrators
<li class="toctree-l1">For application developers
<li class="toctree-l1">For plugin module
developers
<li class="toctree-l1">Building Kerberos V5
<li class="toctree-l1">Kerberos V5 concepts
<li class="toctree-l1"><a class="reference internal"
href="formats/index.html">Protocols and file formats
<li class="toctree-l1">MIT Kerberos features
<li class="toctree-l1">How to build this documentation from
the source
<li class="toctree-l1">Contributing to the MIT Kerberos
Documentation
<li class="toctree-l1">Resources


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<div class="clearer"></div>
</div>
</div>

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 </div>
 <div class="left">

 <a href="index.html" title="Full Table of Contents"
 >Contents |
 <a href="mitK5license.html" title="MIT Kerberos License information"
 >previous |
 <a href="build_this.html" title="How to build this documentation from the source"
 >next |
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 >index |

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<a href="search.html" title="Enter search criteria"
>Search |
feedback
</div>
</div>
</div>

</body>
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lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c

lib/gssapi/mechglue/g\_acquire\_cred.c  
 lib/gssapi/mechglue/g\_canon\_name.c  
 lib/gssapi/mechglue/g\_compare\_name.c  
 lib/gssapi/mechglue/g\_context\_time.c  
 lib/gssapi/mechglue/g\_delete\_sec\_context.c  
 lib/gssapi/mechglue/g\_dsp\_name.c  
 lib/gssapi/mechglue/g\_dsp\_status.c  
 lib/gssapi/mechglue/g\_dup\_name.c  
 lib/gssapi/mechglue/g\_exp\_sec\_context.c  
 lib/gssapi/mechglue/g\_export\_name.c  
 lib/gssapi/mechglue/g\_glue.c  
 lib/gssapi/mechglue/g\_imp\_name.c  
 lib/gssapi/mechglue/g\_imp\_sec\_context.c  
 lib/gssapi/mechglue/g\_init\_sec\_context.c  
 lib/gssapi/mechglue/g\_initialize.c  
 lib/gssapi/mechglue/g\_inquire\_context.c  
 lib/gssapi/mechglue/g\_inquire\_cred.c  
 lib/gssapi/mechglue/g\_inquire\_names.c  
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 lib/gssapi/mechglue/g\_rel\_cred.c  
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 lib/gssapi/mechglue/g\_rel\_oid\_set.c  
 lib/gssapi/mechglue/g\_seal.c  
 lib/gssapi/mechglue/g\_sign.c  
 lib/gssapi/mechglue/g\_store\_cred.c  
 lib/gssapi/mechglue/g\_unseal.c  
 lib/gssapi/mechglue/g\_userok.c  
 lib/gssapi/mechglue/g\_utils.c  
 lib/gssapi/mechglue/g\_verify.c  
 lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
 lib/gssapi/mechglue/mglueP.h  
 lib/gssapi/mechglue/oid\_ops.c  
 lib/gssapi/spnego/gssapiP\_spnego.h  
 lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
 including  
 the following new or changed files:

include/iprop\_hdr.h  
 kadmin/server/ipropd\_svc.c  
 lib/kdb/iprop.x  
 lib/kdb/kdb\_convert.c  
 lib/kdb/kdb\_log.c  
 lib/kdb/kdb\_log.h  
 lib/krb5/error\_tables/kdb5\_err.et  
 kprop/kpropd\_rpc.c

kprop/kproplog.c

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import os
import sys
import re

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

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

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

def check_file(lines, fname):

```

```

Skip emacs mode line if present.
ln = 0
if '-*- mode: c;' in lines[ln]:
 ln += 1

Check filename comment if present.
m = re.match(r'^* ([^]*)(- .*)? */', 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('*').rstrip())
 elif in_comment:
 (comment_part, sep, line) = line.partition('*/')
 comment.append(comment_part.strip())
 is_license = check_comment(comment, fname, comment_starts_at,
 code_seen, nonlicense_seen)
 nonlicense_seen = nonlicense_seen or not is_license
 in_comment = False
 elif line.strip() != "":
 code_seen = True

 ln += 1

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

```

```

 check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

```

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```

*/
.. _mitK5license:

```

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=====

```

.. toctree::
 :hidden:

```

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```

.. include:: notice.rst
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=====

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## 1.23 sudo 1.8.23

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard

Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
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Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbess, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes,

Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
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Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
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Spradling, Cloyce D.  
Stier, Matthew  
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Street, Russell  
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Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
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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:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
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Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
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Psa, Petr  
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Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

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## 1.27 lua 5.3.3

## 1.28 grub2 2.02

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Upstream Author: Mark A Lindner

Mark Lindner - Lead developer & maintainer.

Daniel Marjamdki - Enhancements & bugfixes.

Andrew Tytula - Windows Port.

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@c \input texinfo.tex @c -\*texinfo-\*

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

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a) Accompany

the work with the complete corresponding

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## 1.33 grub2 1.2

### 1.33.1 Available under license :

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Version 3, 29 June 2007

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The

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## 1.35 ncurses 6.1

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## 1.44 file 5.34

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```
-makefile-
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao

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

```
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

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

```
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

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

```
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
Dependency rules
```

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

```
@echo "generating dependency information for $<"
```

```
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
```

```
| sed \"s/($*)\\.o[:]*/^1.o $@ : /g\" > $@; \
```

```
[-s $@] || rm -f $@'
```

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

```
@echo "generating dependency information for $<"
```

```
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
```

```
| sed \"s/($*)\\.o[:]*/^1.o $@ : /g\" > $@; \
```

```
[-s $@] || rm -f $@'
```

```
Versioned libraries rules
```

```
%. $(SO). $(SO_TARGET_VERSION_MAJOR): %. $(SO). $(SO_TARGET_VERSION)
```

```
$(RM) $@ && ln -s ${<F} $@
```

```
%. $(SO): %. $(SO). $(SO_TARGET_VERSION_MAJOR)
```

```
$(RM) $@ && ln -s ${*F}. $(SO). $(SO_TARGET_VERSION) $@
```

```
End FreeBSD-specific setup
```

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# 1.45 gnutls 3.6.4

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Version 2.1, February 1999

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=====

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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## 1.50 libpng 1.6.36

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# 1.55 ncurses 5.9 13.20130511.el7

## 1.55.1 Available under license :

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: install-sh

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## 1.56 glib 2.58.0

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## 1.58 libwebp 1.0.0-r0

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## 1.59 perl 5.24.4

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The End

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<one line to give the program's name and a brief idea of what it does.>
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```

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```
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  
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Of course, the  
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program.

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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!  
#!/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;
}

```

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The End

# 1.60 dosfs-tools 4.1

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Version 3, 29 June 2007

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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WinJS

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```

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```
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```

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The End

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## 1.70 icu 65

### 1.70.1 Available under license :

```
-*-makefile-*-
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BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao
```

```

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

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

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*/1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

Bind internal references

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

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

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
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```

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#

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#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'/'\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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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Gadi Oxman, August 1995

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Theodore Ts'o  
23-June-2007

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```
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```

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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## 1.73 openssl 1.1.1b

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```
<one line to give the program's name and a brief idea of what it does.>
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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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## 1.76 fribidi 1.0.5

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Any

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## 1.77 re2 1.3

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## 1.90 util-linux 2.32.1

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# 1.92 libidn 2.0.5

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```
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```
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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.96 atk 2.28.1



## 1.96.1 Available under license :

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<meta name="author" content="Josh Coalson" />
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<meta name="keywords"
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ic" />
<link rel="shortcut icon" type="image/x-icon"
href="favicon.ico" />
<link rel="stylesheet" type="text/css" href="flac.css" />
<title>FLAC - license</title>
</head>

<body>

<div class="logo">

```

</div>

<div class="above\_nav"></div>

<div class="navbar">

&nbsp;<a href="index.html">home</a>&nbsp;&nbsp;&nbsp;|

&nbsp;<a href="faq.html">faq</a>&nbsp;&nbsp;&nbsp;|

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</div>

<div class="below\_nav"></div>

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<div class="box\_title">

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</div>

<div class="box\_header"></div>

<div class="box\_body">

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# 1.100 atk 2.26.2

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## 1.103 libinput 1.11.3

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## 1.104 gtk 3.22.30

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## 1.105 xorg-server 1.20.1

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## 1.108 tdb 1.44.3

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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): $(OBS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
- + Copyright (C) Andrew Tridgell            1999-2005
- + Copyright (C) Jeremy Allison            2000-2006
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Theodore Ts'o  
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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- \* Small optimizations to Python serialization.

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- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Added @Override annotation to generated Java code where appropriate.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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- \* Fixed initialization ordering problem in logging code.

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- \* Small patch improving performance of in Python serialization.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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- \* Added CodedInputStream.getTotalBytesRead().

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- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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## 1.115 libdrm 2.4.94

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## 1.117 libxcursor 1\_1.1.15-r0

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## 1.123 kerberos 1.16.1

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* tests/shlib/t_loader.c */
/*
```

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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
```

lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
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lib/libgss/g\_seal.c  
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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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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c

lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.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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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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C++ Big Integer Library  
(see ChangeLog for version)

Written and maintained by Matt McCutchen <[matt@mattmccutchen.net](mailto:matt@mattmccutchen.net)>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides `BigUnsigned` and `BigInteger` classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a * a);

(pints 340282366920938463463374607431768211456)
```

The code in `sample.cc` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc`, consult the  
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

#### Compiling programs that use the library

-----  
The library consists of a folder full of C++ header files (`.hh`) and source files (`.cc`). Your own programs should `#include` the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc`) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked  
with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

#### Resources

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The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

#### Bugs and enhancements

-----

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).

I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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2006-Jan-27

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o [freetype-devel@nongnu.org](mailto:freetype-devel@nongnu.org)

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```

```
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#

# These people were responsible for the initial implementations in Java and

# C++.

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Lara Rennie

David Yonge-Mallo

David Beaumont

# Team carrying out the bulk of metadata maintenance, bug fixes & feature requests, and porting new features to Javascript.

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David Beaumont

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Keghani Kristelle Kouzoujian

Sumathi Sundara Murthy

# Additional contributions:

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-- Initial implementation, some subsequent maintenance.

James Wright

-- Short number info port to Javascript.

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-- Timezone mapper.

Philippe Liard

-- Offline geocoder, local Maven expert.

Cecilia Roes

-- Carrier mapper.

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-- First version

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Philippe Liard

-- Initial open-sourcing of a C++ library, responsible for getting this to work across multiple platforms.

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-- Contributed towards thread synchronization solutions.

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## 1.142 lockfile 0.12.2

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## 1.143 urllib3 1.23

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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>

\* 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
  
- \* 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@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>

- \* Support for non-ASCII header parameters
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
- \* Danilo @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

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James  
Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter



- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.

- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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## 1.144 python-requests 2.19.1

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## 1.147 sysv-init 2.86-1

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```
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```

The hypothetical commands `show w'  
and `show c' should show the appropriate  
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

- \* A rewrite  
of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,  
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# 1.148 at-spi2-core 2.28.0

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## 1.149 linux-kernel 4.18.0-240

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## 1.151 pango 1.42.4

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## 1.152 shadow 4.6

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@item

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@smallexample

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```
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This program comes with ABSOLUTELY NO WARRANTY;
for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
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```

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## 1.154 glibc 8.30

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
| PSF            | yes          |           |            |                     |

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- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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```

```
import 'package:meta/meta.dart';
import 'package:package_config/package_config.dart';

import 'base/file_system.dart';
```

```

/// Processes dependencies into a string representing the NOTICES file.
///
/// Reads the NOTICES or LICENSE file from each package in the .packages file,
/// splitting each one into each component license so that it can be de-duped
/// if possible. If the NOTICES file exists, it is preferred over the LICENSE
/// file.
///
/// Individual licenses inside each LICENSE file should be separated by 80
/// hyphens on their own on a line.
///
/// If a LICENSE or NOTICES file contains more than one component license,
/// then each component license must start with the names of the packages to
/// which the component license applies, with each package name on its own line
/// and the list of package names separated
from the actual license text by a
/// blank line. The packages need not match the names of the pub package. For
/// example, a package might itself contain code from multiple third-party
/// sources, and might need to include a license for each one.
class LicenseCollector {
 LicenseCollector({
 @required FileSystem fileSystem
 }) : _fileSystem = fileSystem;

 final FileSystem _fileSystem;

 /// The expected separator for multiple licenses.
 static final String licenseSeparator = '\n' + ('-' * 80) + '\n';

 /// Obtain licenses from the `packageMap` into a single result.
 ///
 /// [additionalLicenses] should contain aggregated license files from all
 /// of the current applications dependencies.
 LicenseResult obtainLicenses(
 PackageConfig packageConfig,
 Map<String, List<File>> additionalLicenses,
) {
 final Map<String, Set<String>> packageLicenses = <String, Set<String>>{};
 final Set<String> allPackages = <String>{};
 final List<File> dependencies = <File>[];

 for (final Package package in packageConfig.packages) {
 final Uri packageUri = package.packageUriRoot;
 if (packageUri == null || packageUri.scheme != 'file') {
 continue;
 }
 // First check for NOTICES, then fallback to LICENSE
 File file = _fileSystem.file(packageUri.resolve('../NOTICES'));
 if (!file.existsSync()) {

```

```

 file = _fileSystem.file(packageUri.resolve('../LICENSE'));
 }
 if (!file.existsSync()) {
 continue;
 }

 dependencies.add(file);
 final List<String> rawLicenses = file
 .readAsStringSync()
 .split(licenseSeparator);
 for (final String rawLicense in rawLicenses) {
 List<String> packageNames;
 String licenseText;
 if (rawLicenses.length > 1) {
 final int split = rawLicense.indexOf('\n\n');
 if (split >= 0) {
 packageNames = rawLicense.substring(0, split).split('\n');
 licenseText = rawLicense.substring(split
+ 2);
 }
 }
 if (licenseText == null) {
 packageNames = <String>[package.name];
 licenseText = rawLicense;
 }
 packageLicenses.putIfAbsent(licenseText, () => <String>{}).addAll(packageNames);
 allPackages.addAll(packageNames);
 }
}

final List<String> combinedLicensesList = packageLicenses.keys
 .map<String>((String license) {
 final List<String> packageNames = packageLicenses[license].toList()
 ..sort();
 return packageNames.join('\n') + '\n\n' + license;
 }).toList();
combinedLicensesList.sort();

/// Append additional LICENSE files as specified in the pubspec.yaml.
final List<String> additionalLicenseText = <String>[];
final List<String> errorMessages = <String>[];
for (final String package in additionalLicenses.keys) {
 for (final File license in additionalLicenses[package]) {
 if (!license.existsSync()) {
 errorMessages.add(

'package $package specified an additional license at ${license.path}, but this file '
'does not exist.'

```



```

);
 continue;
}
dependencies.add(license);
try {
 additionalLicenseText.add(license.readAsStringSync());
} on FormatException catch (err) {
 // File has an invalid encoding.
 errorMessages.add(
 'package $package specified an additional license at ${license.path}, but this file '
 'could not be read:\n$err'
);
} on FileSystemException catch (err) {
 // File cannot be parsed.
 errorMessages.add(
 'package $package specified an additional license at ${license.path}, but this file '
 'could not be read:\n$err'
);
}
}
}
if (errorMessages.isNotEmpty) {
 return LicenseResult(
 combinedLicenses: "",
 dependencies: <File>[],
 errorMessages: errorMessages,
);
}

final String combinedLicenses = combinedLicensesList
 .followedBy(additionalLicenseText)
 .join(licenseSeparator);

return LicenseResult(
 combinedLicenses: combinedLicenses,
 dependencies: dependencies,
 errorMessages: errorMessages,
);
}
}

/// The result of processing licenses with a [LicenseCollector].
class LicenseResult {
 const LicenseResult({
 @required this.combinedLicenses,
 @required this.dependencies,
 @required this.errorMessages,
 });
}

```

```

/// The raw text of the consumed licenses.
final String combinedLicenses;

/// Each license file that was consumed as input.
final List<File> dependencies;

/// If non-empty, license collection failed and this messages should
/// be displayed by the asset parser.
final List<String> errorMessages;
}

```

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flutter_gallery_assets
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import 'package:meta/meta.dart' show visibleForTesting;

/// Signature for callbacks passed to [LicenseRegistry.addLicense].

typedef LicenseEntryCollector = Stream<LicenseEntry> Function();

/// A string that represents one paragraph in a [LicenseEntry].

///

/// See [LicenseEntry.paragraphs].

class LicenseParagraph {

/// Creates a string for a license entry paragraph.

const LicenseParagraph(this.text, this.indent);

/// The text of the paragraph. Should not have any leading or trailing whitespace.

final String text;

/// How many steps of indentation the paragraph has.

///

/// \* 0 means the paragraph is not indented.

/// \* 1 means the paragraph is indented one unit of indentation.

/// \* 2 means the paragraph is indented two units of indentation.

///

/// ...and so forth.

///

/// In addition, the special

value [centeredIndent] can be used to indicate

/// that rather than being indented, the paragraph is centered.

final int indent; // can be set to centeredIndent

/// A constant that represents "centered" alignment for [indent].

static const int centeredIndent = -1;

}

/// A license that covers part of the application's software or assets, to show

/// in an interface such as the [LicensePage].

///

/// For optimal performance, [LicenseEntry] objects should only be created on

```

/// demand in [LicenseEntryCollector] callbacks passed to
/// [LicenseRegistry.addLicense].
abstract class LicenseEntry {
 /// Abstract const constructor. This constructor enables subclasses to provide
 /// const constructors so that they can be used in const expressions.
 const LicenseEntry();

 /// The names of the packages that this license entry applies to.
 Iterable<String> get packages;

 /// The paragraphs of the license, each as a [LicenseParagraph] consisting of
 /// a string and some formatting
 information. Paragraphs can include newline
 /// characters, but this is discouraged as it results in ugliness.
 Iterable<LicenseParagraph> get paragraphs;
}

enum _LicenseEntryWithLineBreaksParserState {
 beforeParagraph,
 inParagraph,
}

/// Variant of [LicenseEntry] for licenses that separate paragraphs with blank
/// lines and that hard-wrap text within paragraphs. Lines that begin with one
/// or more space characters are also assumed to introduce new paragraphs,
/// unless they start with the same number of spaces as the previous line, in
/// which case it's assumed they are a continuation of an indented paragraph.
///
/// {@tool snippet}
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/// LicenseRegistry.addLicense(() async* {
/// yield LicenseEntryWithLineBreaks(<String>['my_library'], ""
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```



```

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/// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.");
/// });
/// }
/// ```
/// {@end-tool}
///
/// This would result in a license with six [paragraphs], the third, fourth, and
/// fifth being indented one level.
///
/// ## Performance considerations
///
/// Computing the paragraphs is relatively expensive. Doing the work for one
/// license per frame is reasonable; doing more at the same time is ill-advised.
/// Consider doing all the work at once using [compute] to move the work to
/// another thread, or spreading the work across multiple frames using
///
/// [SchedulerBinding.scheduleTask].
class LicenseEntryWithLineBreaks extends LicenseEntry {
/// Create a license entry for a license whose text is hard-wrapped within
/// paragraphs and has paragraph breaks denoted by blank lines or with
/// indented text.
const LicenseEntryWithLineBreaks(this.packages, this.text);

@override
final List<String> packages;

/// The text of the license.
///
/// The text will be split into paragraphs according to the following
/// conventions:
///
/// * Lines starting with a different number of space characters than the

```

```

/// previous line start a new paragraph, with those spaces removed.
/// * Blank lines start a new paragraph.
/// * Other line breaks are replaced by a single space character.
/// * Leading spaces on a line are removed.
///
/// For each paragraph, the algorithm attempts (using some rough heuristics)
/// to identify how indented the paragraph is, or whether it is centered.
final String text;

@override
Iterable<LicenseParagraph> get paragraphs sync* {
 int lineStart = 0;
 int currentPosition = 0;
 int lastLineIndent = 0;
 int currentLineIndent = 0;
 int? currentParagraphIndentation;
 _LicenseEntryWithLineBreaksParserState state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 final List<String> lines = <String>[];

 void addLine() {
 assert(lineStart < currentPosition);
 lines.add(text.substring(lineStart, currentPosition));
 }

 LicenseParagraph getParagraph() {
 assert(lines.isNotEmpty);
 assert(currentParagraphIndentation != null);
 final LicenseParagraph result = LicenseParagraph(lines.join(' '), currentParagraphIndentation!);
 assert(result.text.trimLeft() == result.text);
 assert(result.text.isNotEmpty);
 lines.clear();
 return result;
 }

 while (currentPosition < text.length) {
 switch (state) {
 case _LicenseEntryWithLineBreaksParserState.beforeParagraph:
 assert(lineStart
== currentPosition);
 switch (text[currentPosition]) {
 case ' ':
 lineStart = currentPosition + 1;
 currentLineIndent += 1;
 state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 break;
 case '\t':
 lineStart = currentPosition + 1;
 currentLineIndent += 8;

```

```

 state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 break;
case '\r':
case '\n':
case '\f':
 if (lines.isNotEmpty) {
 yield getParagraph();
 }
 if (text[currentPosition] == '\r' && currentPosition < text.length - 1
 && text[currentPosition + 1] == '\n') {
 currentPosition += 1;
 }
 lastLineIndent = 0;
 currentLineIndent = 0;
 currentParagraphIndentation = null;
 lineStart = currentPosition
+ 1;

 state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 break;
case '[':
 // This is a bit of a hack for the LGPL 2.1, which does something like this:
 //
 // [this is a
 // single paragraph]
 //
 // ...near the top.
 currentLineIndent += 1;
 continue startParagraph;
startParagraph:
default:
 if (lines.isNotEmpty && currentLineIndent > lastLineIndent) {
 yield getParagraph();
 currentParagraphIndentation = null;
 }
 // The following is a wild heuristic for guessing the indentation level.
 // It happens to work for common variants of the BSD and LGPL licenses.
 if (currentParagraphIndentation == null) {
 if (currentLineIndent > 10)
 currentParagraphIndentation = LicenseParagraph.centeredIndent;
 else
 currentParagraphIndentation = currentLineIndent ~/ 3;
 }
 state = _LicenseEntryWithLineBreaksParserState.inParagraph;
}
break;
case _LicenseEntryWithLineBreaksParserState.inParagraph:
 switch (text[currentPosition]) {
 case '\n':

```

```

 addLine();
 lastLineIndent = currentLineIndent;
 currentLineIndent = 0;
 lineStart = currentPosition + 1;
 state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 break;
 case '\f':
 addLine();
 yield getParagraph();
 lastLineIndent = 0;
 currentLineIndent = 0;
 currentParagraphIndentation = null;
 lineStart = currentPosition + 1;
 state = _LicenseEntryWithLineBreaksParserState.beforeParagraph;
 break;
 default:
 state = _LicenseEntryWithLineBreaksParserState.inParagraph;
 }
 break;
}
currentPosition += 1;
}
switch (state) {
 case _LicenseEntryWithLineBreaksParserState.beforeParagraph:
 if (lines.isNotEmpty) {
 yield getParagraph();
 }
 break;
 case _LicenseEntryWithLineBreaksParserState.inParagraph:
 addLine();
 yield getParagraph();
 break;
}
}
}

```

```

/// A registry for packages to add licenses to, so that they can be displayed
/// together in an interface such as the [LicensePage].
///
/// Packages can register their licenses using [addLicense]. User interfaces
/// that wish to show all the licenses can obtain them by calling [licenses].
///
/// The flutter tool will automatically collect the contents of all the LICENSE
/// files found at the root of each package into a single LICENSE file in the
/// default asset bundle. Each license in that file is separated from the next
///

```

```

by a line of eighty hyphens (`-`), and begins with a list of package names
/// that the license applies to, one to a line, separated from the next by a
/// blank line. The `services` package registers a license collector that splits
/// that file and adds each entry to the registry.
///
/// The LICENSE files in each package can either consist of a single license, or
/// can be in the format described above. In the latter case, each component
/// license and list of package names is merged independently.
///
/// See also:
///
/// * [showAboutDialog], which shows a Material-style dialog with information
/// about the application, including a button that shows a [LicensePage] that
/// uses this API to select licenses to show.
/// * [AboutListTile], which is a widget that can be added to a [Drawer]. When
/// tapped it calls [showAboutDialog].
class LicenseRegistry {
 // This class is not meant to be instantiated or extended; this constructor
 // prevents instantiation and
 extension.
 // ignore: unused_element
 LicenseRegistry._();

 static List<LicenseEntryCollector>? _collectors;

 /// Adds licenses to the registry.
 ///
 /// To avoid actually manipulating the licenses unless strictly necessary,
 /// licenses are added by adding a closure that returns a list of
 /// [LicenseEntry] objects. The closure is only called if [licenses] is itself
 /// called; in normal operation, if the user does not request to see the
 /// licenses, the closure will not be called.
 static void addLicense(LicenseEntryCollector collector) {
 _collectors ??= <LicenseEntryCollector>[];
 _collectors!.add(collector);
 }

 /// Returns the licenses that have been registered.
 ///
 /// Generating the list of licenses is expensive.
 static Stream<LicenseEntry> get licenses async* {
 if (_collectors == null)
 return;
 for (final LicenseEntryCollector collector in _collectors!)
 yield* collector();
 }

 /// Resets the internal state of [LicenseRegistry].

```

```
Intended for use in
/// testing.
@visibleForTesting
static void reset() {
 _collectors = null;
}
}
```

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<https://github.com/w3c/web-platform-tests/tree/master/selectors-api>

It is based on commit 96c61ac7c21f7f37526d1c03c4c6087734524130

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```
import 'package:file/memory.dart';
import 'package:flutter_tools/src/base/file_system.dart';
import 'package:flutter_tools/src/convert.dart';
import 'package:flutter_tools/src/license_collector.dart';
import 'package:package_config/package_config.dart';
import 'package:package_config/package_config_types.dart';
```

```
import '../src/common.dart';
```

```
const String _kMitLicense = r'''
```

```
MIT License
```

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"";

```
const String _kApacheLicense = r"
 Apache License
 Version 2.0, January 2004
 http://www.apache.org/licenses/
```

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"";

```
void main()
{
 FileSystem fileSystem;
 LicenseCollector licenseCollector;

 setUp() {
 fileSystem = MemoryFileSystem.test();
 licenseCollector = LicenseCollector(fileSystem: fileSystem);
 });

 testWithoutContext('processes dependent licenses according to instructions', () async {
 fileSystem.file('foo/NOTICES')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kMitLicense);
 fileSystem.file('bar/NOTICES')
 ..createSync(recursive: true)
```

```

 ..writeAsStringSync(_kApacheLicense);
// NOTICES is preferred over LICENSE
fileSystem.file('bar/LICENSE')
 ..createSync(recursive: true)
 ..writeAsStringSync('SHOULD NOT BE INCLUDED');
fileSystem.file('fizz/LICENSE')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kMitLicense); // intentionally a duplicate

final File packageConfigFile = fileSystem.file('package_config.json')
 ..writeAsStringSync(json.encode(
 <String, Object>{
 'configVersion': 2,
 'packages':
<Object>[
 <String, Object>{
 'name': 'foo',
 'rootUri': 'file:///foo/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
 <String, Object>{
 'name': 'bar',
 'rootUri': 'file:///bar/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
 <String, Object>{
 'name': 'fizz',
 'rootUri': 'file:///fizz/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
],
 }
));
final PackageConfig packageConfig = await loadPackageConfig(packageConfigFile.absolute);
final LicenseResult result = licenseCollector.obtainLicenses(packageConfig, <String, List<File>>{});

// All included licenses are combined in the result.
expect(result.combinedLicenses, contains(_kApacheLicense));
expect(result.combinedLicenses, contains(_kMitLicense));

// String from LICENSE file was not included when NOTICES exists.
expect(result.combinedLicenses, isNot(contains('SHOULD NOT BE INCLUDED')));

// Licenses are de-duplicated correctly.
expect(result.combinedLicenses.split(LicenseCollector.licenseSeparator), hasLength(2));

```

```

// All input licenses included in result.
final Iterable<String> filePaths = result.dependencies.map((File file) => file.path);
expect(filePaths, unorderedEquals(<String>[
 '/foo/NOTICES',
 '/bar/NOTICES',
 '/fizz/LICENSE'
]));

testWithoutContext('includes additional LICENSE files as specified by pubspec.yaml', () async {
 fileSystem.file('foo/NOTICES')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kMitLicense);
 fileSystem.file('bar/NOTICES')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kApacheLicense);
 fileSystem.file('foo.txt').writeAsStringSync('foo.txt');
 fileSystem.file('bar.txt').writeAsStringSync('bar.txt');

 final File packageConfigFile = fileSystem.file('package_config.json')
 ..writeAsStringSync(json.encode(
 <String, Object>{
 'configVersion': 2,
 'packages': <Object>[
 <String, Object>{
 'name': 'foo',
 'rootUri': 'file:///foo/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
 <String, Object>{
 'name': 'bar',
 'rootUri': 'file:///bar/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
],
 }
));
 final PackageConfig packageConfig = await loadPackageConfig(packageConfigFile.absolute);
 final LicenseResult result = licenseCollector.obtainLicenses(packageConfig, <String, List<File>>{
 'foo': <File>[fileSystem.file('foo.txt').absolute],
 'bar': <File>[fileSystem.file('bar.txt').absolute],
 });

 // Additional license files are included in the result.

```

```

expect(result.combinedLicenses, contains(_kApacheLicense));
expect(result.combinedLicenses, contains(_kMitLicense));
expect(result.combinedLicenses, contains('foo.txt'));
expect(result.combinedLicenses, contains('bar.txt'));

// All input licenses included in result.
final Iterable<String> filePaths = result.dependencies.map((File file) => file.path);
expect(filePaths, unorderedEquals(<String>[
 '/foo/NOTICES',
 '/bar/NOTICES',
 '/foo.txt',
 '/bar.txt',
]));
});

testWithoutContext('Returns a LicenseResult with an error message if an additional LICENSE file does not exist', ()
async {
 fileSystem.file('foo/NOTICES')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kMitLicense);

 final File packageConfigFile = fileSystem.file('package_config.json')
 ..writeAsStringSync(json.encode(
 <String, Object>{
 'configVersion': 2,
 'packages': <Object>[
 <String, Object>{

 'name': 'foo',
 'rootUri': 'file:///foo/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
],
 }
));

 final PackageConfig packageConfig = await loadPackageConfig(packageConfigFile.absolute);

 final LicenseResult licenseResult = licenseCollector.obtainLicenses(packageConfig, <String, List<File>>{
 'foo': <File>[fileSystem.file('foo.txt').absolute, fileSystem.file('foo_2.txt').absolute], // Files do not exist.
 });

 expect(licenseResult.combinedLicenses, "");
 expect(licenseResult.dependencies, isEmpty);
 expect(licenseResult.errorMessages, <String>[
 'package foo specified an additional license at /foo.txt, but this file does not exist.',
 'package foo specified an additional license at /foo_2.txt, but this file does not exist.'
]);
});

```

```

});

testWithoutContext('Returns a LicenseResult with an error message if an additional license file is not valid utf8', ()
async
{
 fileSystem.file('foo/NOTICES')
 ..createSync(recursive: true)
 ..writeAsStringSync(_kMitLicense);
 fileSystem.file('foo.txt')
 ..createSync(recursive: true)
 ..writeAsBytesSync(<int>[0xFFFE]);

 final File packageConfigFile = fileSystem.file('package_config.json')
 ..writeAsStringSync(json.encode(
 <String, Object>{
 'configVersion': 2,
 'packages': <Object>[
 <String, Object>{
 'name': 'foo',
 'rootUri': 'file:///foo/',
 'packageUri': 'lib/',
 'languageVersion': '2.2'
 },
],
 }
));
 final PackageConfig packageConfig = await loadPackageConfig(packageConfigFile.absolute);

 final LicenseResult licenseResult = licenseCollector.obtainLicenses(packageConfig, <String, List<File>>{
 'foo': <File>[fileSystem.file('foo.txt').absolute],
 });

 expect(licenseResult.combinedLicenses, "");
 expect(licenseResult.dependencies,
 isEmpty);
 expect(licenseResult.errorMessages.single,
 'package foo specified an additional license at /foo.txt, but this file could not be read:'
 '\nFormatException: Invalid UTF-8 byte (at offset 0)',
);
});
}

```

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libjpeg-turbo

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project  
to include only information relevant to libjpeg-turbo, to wordsmith certain  
sections, and to remove impolitic language that existed in the libjpeg v8  
README. It is included only for reference. Please see README.md for  
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software

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This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,  
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Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,  
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee  
(also known as JPEG, together with ITU-T SG16).

## DOCUMENTATION ROADMAP

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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.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

usage.txt       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info as usage.txt).  
wizard.txt      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.txt   Overview of the JPEG library's internal structure.  
coderules.txt   Coding style rules --- please read if you contribute code.

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

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

## OVERVIEW

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

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

This

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

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

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

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf.  
It is copyright by the Free Software Foundation but is freely distributable.

The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

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

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## REFERENCES

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.



Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG 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.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

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

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <http://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](mailto:mail-server@rtfm.mit.edu)

with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

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

## TO DO

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Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

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version 1.2.11, January 15th, 2017

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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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.

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.

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