



# Open Source Used In Virtual Topology System 2.6.5

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**4.132 gzip 1.6 :3ubuntu1**

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**4.133 hdparm 9.43 :1ubuntu3**

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**4.135 heimdal 1.6 :1ubuntu1**

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**4.136 hostname 3.16ubuntu2**

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**4.137 html5lib 0.999 :3~ubuntu1**

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**4.144 insserv 1.14.0-2.1ubuntu2 :2.1ubuntu2**

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**4.145 installation-report 2.54ubuntu1**

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**4.146 ipaddress 1.0.17**

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- 4.158 kmod 22 :1ubuntu4**
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- 4.163 language-pack-gnome-en 1:14.04 :20150219**
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- 4.167 libalgorithm-diff-perl 1.19.03 :1**
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- 4.168 libalgorithm-diff-perl 1.19.02 :3**
- 4.169 libalgorithm-diff-xs-perl 0.04 :2build3**
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- 4.180 libedit 3.1 :20150325-1ubuntu2**
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- 4.186 libfile-fcntllock-perl 0.22 :3**
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**4.270 netkit-telnet 0.17 :36build2**  
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**4.404 virtualenv 15.1.0**

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**4.405 wget 1.15-1ubuntu1**

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**4.406 wget 1.17.1 :1ubuntu1.1**

4.406.1 Available under license

**4.407 wheel 0.29.0 :1**

4.407.1 Available under license

**4.408 wsgiref 0.1.2**

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**4.409 xapian-bindings 1.2.16-2ubuntu1 :2ubuntu1**

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**4.410 xapian-core 1.2.16 :2ubuntu1**

4.410.1 Available under license

**4.411 xauth 1:1.0.9 :1ubuntu2**

- 4.411.1 Available under license
- 4.412 xauth 1.0.7 :1ubuntu1**
  - 4.412.1 Available under license
- 4.413 xdg-user-dirs 0.15-1ubuntu3 :1ubuntu3**
  - 4.413.1 Available under license
- 4.414 xml-core 0.13+nmu2 :nmu2**
  - 4.414.1 Available under license
- 4.415 xml-core 0.13 :nmu2**
  - 4.415.1 Available under license
- 4.416 zerofree 1.0.2-1ubuntu1 :1ubuntu1**
  - 4.416.1 Available under license
- 4.417 zlib 1.2.8 :1ubuntu1**
  - 4.417.1 Available under license
- 4.418 zope.interface 4.3.3**
  - 4.418.1 Available under license
- 4.419 zope.interface 4.0.5**
  - 4.419.1 Available under license

## 2.1 Debian ISO 9.3

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The primary ANTLR guy:

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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```

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```
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```

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=====  
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-----

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```
<component name="CopyrightManager">
  <settings default="Apache Software Foundation">
    <module2copyright>
      <element module="All" copyright="Apache Software Foundation" />
    </module2copyright>
    <LanguageOptions name="HTML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="JAVA">
      <option name="fileTypeOverride" value="3" />
    </LanguageOptions>
    <LanguageOptions name="JSP">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="JSPX">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="XML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
  </settings>
</component>
<component name="CopyrightManager">
  <copyright>
    <option name="notice" value="Licensed to the Apache Software Foundation (ASF) under one or
more contributor license agreements. See the NOTICE file distributed with this work for additional
information regarding copyright ownership. The ASF licenses this file to You under the Apache License,
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"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied. See the License for the specific language governing permissions and limitations under the
License." />
    <option name="keyword" value="http://www.apache.org/licenses/LICENSE-2.0" />
    <option name="allowReplaceKeyword" value="Copyright 20" />
    <option name="myName" value="Apache Software Foundation" />
  </copyright>
</component>
```

```

    <option name="myLocal" value="true" />
</copyright>
</component>
/*
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 */

package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;

import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utills;

import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

```

```

private Permission() {
}

static Permission load(Map m) {
    Permission p = new Permission();
    p.originalConfig = new LinkedHashMap<>(m);
    String name = (String) m.get(NAME);
    if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not
specified");
    p.role = readValueAsSet(m, "role");
    if (PermissionNameProvider.Name.get(name) != null) {
        p.wellknownName = PermissionNameProvider.Name.get(name);
        HashSet<String> disAllowed = new HashSet<>(knownKeys);
        disAllowed.remove("role");//these are the only
        disAllowed.remove(NAME);//allowed keys for well-known permissions
        disAllowed.remove("collection");//allowed keys for well-known permissions
        disAllowed.remove("index");
        for (String s : disAllowed) {
            if (m.containsKey(s))
                throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the
permission : " + name);
        }
    }

    p.name = name;
    p.path = readSetSmart(name, m, "path");
    p.collections = readSetSmart(name, m, "collection");
    p.method = readSetSmart(name, m, "method");
    Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
    if (paramRules != null) {
        p.params = new LinkedHashMap<>();
        for (Map.Entry<String, Object> e : paramRules.entrySet()) {
            if (e.getValue() == null) {
                p.params.put(e.getKey(), (String[] val) -> val == null);
            } else {
                List<String> patternStrs = e.getValue() instanceof List ?
                    (List) e.getValue() :
                    singletonList(e.getValue().toString());
                List patterns = patternStrs.stream()
                    .map(it -> it.startsWith("REGEX:") ?
                        Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
                        : it)
                    .collect(Collectors.toList());
                p.params.put(e.getKey(), val -> {
                    if (val == null) return false;
                    for (Object pattern : patterns) {
                        for (String s : val) {
                            if (pattern instanceof String) {

```

```

        if (pattern.equals(s)) return true;
    } else if (pattern instanceof Pattern) {
        if (((Pattern) pattern).matcher(s).find()) return true;
    }
    }
    }
    return false;
});
}
}
return p;
}

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
"collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}

/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m the map from which to lookup
 * @param key the key with which to do lookup
 */
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("");
        }
        return null;
    }
}

```



```

    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : " + key);
    }
    return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method",
NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT",
"HEAD");

}
= Copying Fields
// Licensed to the Apache Software Foundation (ASF) under one
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// regarding copyright ownership. The ASF licenses this file
// to you under the Apache License, Version 2.0 (the
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```

You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the `_source_`, and the name of the copy is the `_destination_`. In ``schema.xml``, it's very simple to make copies of fields:

```
[source,xml]
```

```
----
<copyField source="cat" dest="text" maxChars="30000" />
----
```

In this example, we want Solr to copy the ``cat`` field to a field named ``text``. Fields are copied before [<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>>](#) is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the ``text`` destination field has data of its own in the input documents, the contents of the ``cat`` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as ``multivalued="true"``` if they will ultimately get multiple values (either from a multivalued source or from multiple ``copyField`` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, ``title``, ``author``, ``keywords``, and ``body`` may all be fields that should be searched by default, with copy field rules for each field to copy to a ``catchall`` field (for example, it could be named anything). Later you can set a rule in ``solrconfig.xml`` to search the ``catchall`` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The ``maxChars`` parameter, an ``int`` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of ``copyField`` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern ``*_t`` to the text field.:

```
[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
```

#### [IMPORTANT]

=====

The ``copyField`` command can use a wildcard (\*) character in the ``dest`` parameter only if the ``source`` parameter contains one as well. ``copyField`` uses the matching glob from the source field for the ``dest`` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., you cannot copy from ``here`` to ``there`` and then from ``there`` to ``elsewhere``. However, the same source field can be copied to multiple destination fields:

```
[source,xml]
----
```

```
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

----

Stax2 API is an extension to basic Stax 1.0 API that adds significant new functionality, such as full-featured bi-direction validation interface and high-performance Typed Access API.

(From <http://repo1.maven.org/maven2/org/codehaus/woodstox/stax2-api/3.1.4/stax2-api-3.1.4.pom>)

Developer: Tatu Saloranta <[tatu@fasterxml.com](mailto:tatu@fasterxml.com)>

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=====
```

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported

commercially by FasterXML.com.

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Java Sound Resources - Matthias Pfisterer, Florian Bomers - (<http://www.jsresources.org/>)

Java Sound Tritonus Team (<http://tritonius.org/>)

UIMA Annotator: alchemy-annotator

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Woodstox was originally written by Tatu Saloranta (<[tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)>).

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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analysis/common/src/resources/org/apache/lucene/analysis/snowball  
were developed by Martin Porter and Richard Boulton.

The full snowball package is available from  
<http://snowball.tartarus.org/>

The KStem stemmer in  
analysis/common/src/org/apache/lucene/analysis/en  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed  
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and Edmond Nolan.

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in [stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt](http://stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt).  
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<html><head>
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<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
```

```
<title>Eclipse.org Software User Agreement</title>
```

```
</head><body lang="EN-US" link="blue" vlink="purple">
```

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<li>A

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<li>Features

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BUILD: 2016-02-13 19:37:50+01:00  
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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (<https://github.com/jpountz>)

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(From <http://woodstox.codehaus.org/4.2.0/release-notes/README>)

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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing").

It specifically implements StAX 1.0 API:

<http://www.jcp.org/en/jsr/detail?id=173>

which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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XZ for Java 1.0 (2011-10-22)

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
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VERSION: 2.1 PoliMorf

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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

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```
<component name="CopyrightManager">
  <settings default="Apache Software Foundation">
    <module2copyright>
      <element module="All" copyright="Apache Software Foundation" />
    </module2copyright>
    <LanguageOptions name="HTML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="JAVA">
      <option name="fileTypeOverride" value="3" />
    </LanguageOptions>
  </settings>
</component>
```

```

<LanguageOptions name="JSP">
  <option name="fileTypeOverride" value="3" />
  <option name="prefixLines" value="false" />
</LanguageOptions>
<LanguageOptions name="JSPX">
  <option name="fileTypeOverride" value="3" />
  <option name="prefixLines" value="false" />
</LanguageOptions>
<LanguageOptions name="XML">
  <option name="fileTypeOverride" value="3" />
  <option name="prefixLines" value="false" />
</LanguageOptions>
</settings>
</component>
<component name="CopyrightManager">
  <copyright>
    <option name="notice" value="Licensed to the Apache Software Foundation (ASF) under one or
more contributor license agreements. See the NOTICE file distributed with this work for additional
information regarding copyright ownership. The ASF licenses this file to You under the Apache License,
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"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied. See the License for the specific language governing permissions and limitations under the
License." />
    <option name="keyword" value="http://www.apache.org/licenses/LICENSE-2.0" />
    <option name="allowReplaceKeyword" value="Copyright 20" />
    <option name="myName" value="Apache Software Foundation" />
    <option name="myLocal" value="true" />
  </copyright>
</component>
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*/

```

```

package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;

import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utls;

import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not
specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name) != null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
            HashSet<String> disAllowed = new HashSet<>(knownKeys);
            disAllowed.remove("role");//these are the only
            disAllowed.remove(NAME);//allowed keys for well-known permissions
            disAllowed.remove("collection");//allowed keys for well-known permissions
            disAllowed.remove("index");
            for (String s : disAllowed) {
                if (m.containsKey(s))
                    throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the

```

```

permission : " + name);
    }

}

p.name = name;
p.path = readSetSmart(name, m, "path");
p.collections = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
    p.params = new LinkedHashMap<>();
    for (Map.Entry<String, Object> e : paramRules.entrySet()) {
        if (e.getValue() == null) {
            p.params.put(e.getKey(), (String[] val) -> val == null);
        } else {
            List<String> patternStrs = e.getValue() instanceof List ?
                (List) e.getValue() :
                singletonList(e.getValue().toString());
            List patterns = patternStrs.stream()
                .map(it -> it.startsWith("REGEX:") ?
                    Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
                    : it)
                .collect(Collectors.toList());
            p.params.put(e.getKey(), val -> {
                if (val == null) return false;
                for (Object pattern : patterns) {
                    for (String s : val) {
                        if (pattern instanceof String) {
                            if (pattern.equals(s)) return true;
                        } else if (pattern instanceof Pattern) {
                            if (((Pattern) pattern).matcher(s).find()) return true;
                        }
                    }
                }
                return false;
            });
        }
    }
}
return p;
}

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if (PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {

```

```

        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}
/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m the map from which to lookup
 * @param key the key with which to do lookup
 */
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if ("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("");
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : " + key);
    }
    return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method",
NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT",

```

```

"HEAD");

}
= Copying Fields
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```

You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the `_source_`, and the name of the copy is the `_destination_`. In ``schema.xml``, it's very simple to make copies of fields:

```

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

```

In this example, we want Solr to copy the ``cat`` field to a field named ``text``. Fields are copied before `<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>>` is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the ``text`` destination field has data of its own in the input documents, the contents of the ``cat`` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as ``multivalued="true"`` if they will ultimately get multiple values (either from a multivalued source or from multiple ``copyField`` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, ``title``, ``author``, ``keywords``, and ``body`` may all be fields that should be searched by default, with copy field rules for each field to copy to a ``catchall`` field (for example, it could be named anything). Later you can set a rule in ``solrconfig.xml`` to search the ``catchall`` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination

fields being copied to, the analysis in use, and the available disk space.

The ``maxChars`` parameter, an ``int`` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of ``copyField`` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern ``*_t`` to the text field.:

```
[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
```

#### [IMPORTANT]

=====

The ``copyField`` command can use a wildcard (\*) character in the ``dest`` parameter only if the ``source`` parameter contains one as well. ``copyField`` uses the matching glob from the source field for the ``dest`` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., `_you cannot_` copy from ``here`` to ``there`` and then from ``there`` to ``elsewhere``. However, the same source field can be copied to multiple destination fields:

```
[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----
```

Stax2 API is an extension to basic Stax 1.0 API that adds significant new functionality, such as full-featured bi-direction validation interface and high-performance Typed Access API.

(From <http://repo1.maven.org/maven2/org/codehaus/woodstox/stax2-api/3.1.4/stax2-api-3.1.4.pom>)

Developer: Tatu Saloranta <[tatu@fasterxml.com](mailto:tatu@fasterxml.com)>

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has  
been in development since 2007.  
It is currently developed by a community of developers, as well as supported  
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:  
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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
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\* Version: 0.4.16

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## 3.38 bootstrap 3.4.1

## 3.39 CHI 0.60

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## 3.40 CIDRUtils 2/26/2013

## 3.41 collectd 5.8.0

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Fabien Thomas  
Hans Feldt  
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exec/crypto.h:

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include/corosync/jhash.h:

```
/* Copyright (C) 1996 Bob Jenkins (bob_jenkins@burtleburtle.net)
```

```
*
```

```
* http://burtleburtle.net/bob/hash/
```

```
*
```

```
* These are the credits from Bob's sources:
```

```
*
```

```
* lookup2.c, by Bob Jenkins, December 1996, Public Domain.
```

```
* hash(), hash2(), hash3, and mix() are externally useful functions.
```

```
* Routines to test the hash are included if SELF_TEST is defined.
```

```
* You can use this free for any purpose. It has no warranty.
```

```
*
```

```
* Copyright (C) 2003 David S. Miller (davem@redhat.com)
```

```
*
```

```
* I've modified Bob's hash to be useful in the Linux kernel, and
```

```
* any bugs present are surely my fault. -DaveM
```

```
*/
```

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Upstream-Name: crudini

Upstream-Contact: Pdraig Brady <P@draigBrady.com>

Source: <http://www.pixelbeat.org/programs/crudini/>

Files: \*

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## 3.50 csv2array 0.0.4

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## 3.52 Data::Dumper 2.121

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```
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```

, 1 April 1989

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The End

## 3.53 dialog 1.2-20130928 :1

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Upstream source <http://invisible-island.net/dialog/dialog.html>

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

-----  
Files: \*.c \*.h

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That's all there is to it!

This is the Debian prepackaged version of Savio Lam's dialog utility. This program enables the presentation of a variety of questions or display messages using dialog boxes from a shell script. This release is currently maintained by Thomas Dickey <dickey@invisible-island.net>

This Debian package was first created by Leland Lucius <llucius@debian.org>.

The source for this release was obtained from:

<ftp://invisible-island.net/dialog/dialog-1.2-20130928.tgz>

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## 3.54 Digest::SHA 5.96

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## 3.55 docker-ce 18.09.2

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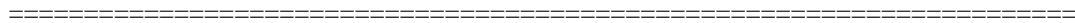
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Go support for Protocol Buffers - Google's data interchange format

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Gocheck - A rich testing framework for Go

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oM\,L{JmpnJ}XNQ4^\_M\*brX1Gi):f<"I#vS\}y^V'viY{313oDY[-  
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#||hhv.b<, n|  
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PNG  
  
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package model

```
import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration    time.Time `json:"expiration"`
    Token         string   `json:"token"`
    MaxEngines    int      `json:"maxEngines"`
    ScanningEnabled bool     `json:"scanningEnabled"`
    Type         string   `json:"licenseType"`
    Tier         string   `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID        string `json:"key_id"`
    PrivateKey   string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
}
```

```

if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""
}
package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

```

```

}

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)

```

```

if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
}

```



```

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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package formatter

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
    "gotest.tools/assert"  
    is "gotest.tools/assert/cmp"  
)  
  
func TestSubscriptionContextWrite(t *testing.T) {
```



```

cases := []struct {
    context Context
    expected string
}{
    // Errors
    {
        Context{Format: "{{InvalidFunction}}"},
        `Template parsing error: template: :1: function "InvalidFunction" not defined
    },
    {
        Context{Format: "{{nil}}"},
        `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
    },
    // Table format
    {
        Context{Format: NewSubscriptionsFormat("table", false)},
        `NUM          OWNER          PRODUCT ID    EXPIRES          PRICING COMPONENTS
1           owner1          productid1    2020-01-01 10:00:00 +0000 UTC  compstring
2           owner2          productid2    2020-01-01 10:00:00 +0000 UTC  compstring
    },
    {
        Context{Format: NewSubscriptionsFormat("table", true)},
        `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
    },
    {
        Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
        `OWNER
owner1
owner2
    },
    {
        Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
        `OWNER
owner1
owner2
    },
    // Raw Format
    {
        Context{Format: NewSubscriptionsFormat("raw", false)},
        `license: id1
name: name1

```

```

owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
  Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
license: id2
`,
},
// Custom Format
{
  Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
{
  Num: 1,
  Owner: "owner1",
  Subscription: model.Subscription{
    ID: "id1",
    Name: "name1",
    ProductID: "productid1",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 10,
      },
    },
  },
  ComponentsString: "compstring",
},
{
  Num: 2,

```

```

Owner: "owner2",
Subscription: model.Subscription{
  ID:    "id2",
  Name:  "name2",
  ProductID: "productid2",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name: "nodes",
      Value: 20,
    },
  },
  ComponentsString: "compstring",
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

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

```

```

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

```

```

    "Name":      "name2",
    "Num":      float64(2),
    "PricingComponents": []interface{}{
    map[string]interface{}{
        "name": "nodes",
        "value": float64(20),
    },
    },
    "ProductID": "productid2",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State":     "",
    "Summary":   "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
    },
    }

```

```

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

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{ }
    err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

```

```

package formatter

import (
    "time"

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

const (
    defaultSubscriptionsTableFormat = "table
    {{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

    numHeader          = "NUM"
    ownerHeader        = "OWNER"
    licenseNameHeader  = "NAME"
    idHeader           = "ID"
    dockerIDHeader     = "DOCKER ID"
    productIDHeader    = "PRODUCT ID"
    productRatePlanHeader = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader        = "START"
    expiresHeader      = "EXPIRES"
    stateHeader        = "STATE"
    eusaHeader         = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

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

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {

```

```

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

```

```

type licenseContext struct {
    HeaderContext
    trunc bool
    l licenseutils.LicenseDisplay
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

}

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

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

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

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

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

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

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

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

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

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

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

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components

```



```
// so it can be rendered properly with the template formatter
```

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

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zNxC5yyw=

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Written by: Don Libes, libes at nist.gov, NIST

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\* regcomp and regexec -- regsub and regerror are elsewhere

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* be misrepresented as being the original software.
*
* Beware that some of this code is subtly aware of the way operator
* precedence is structured in regular expressions. Serious changes in
* regular-expression syntax might require a total rethink.
*
* *** NOTE: this code has been altered slightly for use in Tcl. ***
* *** The only change is to use ckalloc and ckfree instead of ***
* *** malloc and free. ***
*
* *** and again for Expect!!! - DEL
*
* *** More minor corrections stolen from tcl7.5p1/regexp.c - DEL
*
*/
```

## 3.60 Exporter 5.72

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, 1 April 1989  
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## 3.61 File::chmod::Recursive 1.0.3

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```

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Ty Coon, President of Vice
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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
```

at assemblers) written by James Hacker.

, 1 April 1989

Ty Coon, President of Vice

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## 3.63 Filebeat 5.6.10

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Dependency: [github.com/andrewkroh/sys](https://github.com/andrewkroh/sys)

Version:

Revision: 287798fe3e430efeb9318b95ff52353aaa2b59b1

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Dependency: github.com/armon/go-socks5  
Version:  
Revision: 3a873e99f5400ad7706e464e905ffcc94b3ff247  
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Dependency: github.com/davecgh/go-spew  
Version:  
Revision: 5215b55f46b2b919f50a1df0eaa5886afe4e3b3d  
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Revision: 8bc7e193464b5b59a2019a4a429a48526f71bc40  
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Version:

Revision: e30f1e79f3cd72542f2026ceec18d3bd67ab859c

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Dependency: github.com/eapache/go-resiliency  
Version:  
Revision: b86b1ec0dd4209a588dc1285cdd471e73525c0b3  
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Dependency: github.com/eapache/go-xerial-snappy  
Version:  
Revision: bb955e01b9346ac19dc29eb16586c90ded99a98c  
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Version:  
Revision: ded5959c0d4e360646dc9e9908cff48666781367  
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Dependency: github.com/elastic/go-lumber  
Version: v0.1.0  
Revision:  
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Dependency: github.com/elastic/go-ucfg  
Version: v0.4.6  
Revision:  
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Revision: abf152e5f3e97f2fafac028d2cc06c1feb87ffa5  
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Dependency: github.com/fsouza/go-dockerclient  
Version:  
Revision: e085edda407c05214cc6e71e4881de47667e77ec  
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Version: v1.0.0  
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Revision: d9eb7a3d35ec988b8585d4a0068e462c27d28380  
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Version:

Revision: ad28ea4487f05916463e2423a55166280e8254b5

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Version:  
Revision: 5d001d020961ae1c184f9f8152fdc73810481677  
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Source: <https://github.com/packetbeat/packetbeat>

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mgo - MongoDB driver for Go

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

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Dependency: [github.com/andrewkroh/sys](https://github.com/andrewkroh/sys)  
Version:  
Revision: 287798fe3e430efeb9318b95ff52353aaa2b59b1  
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Dependency: [github.com/armon/go-socks5](https://github.com/armon/go-socks5)

Version:

Revision: 3a873e99f5400ad7706e464e905ffcc94b3ff247

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Dependency: github.com/davecgh/go-spew

Version:

Revision: 5215b55f46b2b919f50a1df0eaa5886afe4e3b3d

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Dependency: github.com/docker/docker

Version:

Revision: 8bc7e193464b5b59a2019a4a429a48526f71bc40

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Dependency: github.com/docker/go-units  
Version:  
Revision: e30f1e79f3cd72542f2026ceec18d3bd67ab859c  
License type (autodetected): Apache-2.0  
./metricbeat/module/docker/vendor/github.com/docker/go-units/LICENSE:  
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Dependency: github.com/dustin/go-humanize  
Version:  
Revision: 499693e27ee0d14ffab67c31ad065fdb3d34ea75  
License type (autodetected): MIT  
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Dependency: [github.com/eapache/go-resiliency](https://github.com/eapache/go-resiliency)  
Version:  
Revision: b86b1ec0dd4209a588dc1285cdd471e73525c0b3  
License type (autodetected): MIT  
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Dependency: github.com/eapache/go-xerial-snappy  
Version:  
Revision: bb955e01b9346ac19dc29eb16586c90ded99a98c  
License type (autodetected): MIT  
./vendor/github.com/eapache/go-xerial-snappy/LICENSE:  
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Dependency: github.com/eapache/queue  
Version:  
Revision: ded5959c0d4e360646dc9e9908cff48666781367  
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Version: v0.1.0

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Revision: abf152e5f3e97f2fafac028d2cc06c1feb87ffa5  
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Revision: e085edda407c05214cc6e71e4881de47667e77ec  
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Version: v1.0.0  
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Dependency: [github.com/golang/snappy](https://github.com/golang/snappy)  
Version:  
Revision: d9eb7a3d35ec988b8585d4a0068e462c27d28380  
License type (autodetected): BSD-3-Clause  
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Dependency: [github.com/hashicorp/go-cleanhttp](https://github.com/hashicorp/go-cleanhttp)

Version:

Revision: ad28ea4487f05916463e2423a55166280e8254b5

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Dependency: github.com/Microsoft/go-winio

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Version:  
Revision: 792786c7400a136282c1664665ae0a8db921c6c2  
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Version:  
Revision: 29cc868a5ca65f401ff318143f9408d02f4799cc  
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mgo - MongoDB driver for Go

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Revision: a83829b6f1293c91addabc89d0571c246397bbf4  
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```
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```

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## 3.78 Log4j 1.2.15

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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## 3.82 Monit 5.25.3

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Version 3, 19 November 2007

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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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If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to

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# This is a sorted list of awesome people who have contributed in some way or the other to the Monit project over the years

Arkadiusz Miskiewicz  
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Joe Bryant  
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Klaus Heinz  
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Marco Bisioli  
Margarida Sequeira  
Mark Ferlatte  
Martin Pala  
Michael Amster  
Mostafa Hosseini  
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Thomas Lohmueller  
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## 3.89 ngx-form-errors 1.0.1

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```

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\*/

```

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifdef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

```

/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#endif
#endif
/* the following are currently not implemented */

```

```

#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */
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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */

```

```

#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

```

## 3.97 OpenSSL 1.0.2o

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## 3.98 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
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## 3.99 owasp-password-strength-test 1.3.0

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## 3.100 pacemaker 1.1.10+git20130802

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## 3.101 password-generator 0.0.0 :3/9/2014

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## 3.104 python-configparser 3.3.0r2-2

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Upstream-Contact: (c) ukasz Langa <lukasz@langa.pl>

Source: <https://bitbucket.org/ambv/configparser>

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## 3.105 python-six 1.9.0

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## 3.106 python3.5/readline 3.5.2 :2~16.01

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

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

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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Mersenne Twister

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The `\_random` module includes code based on a download from <http://www.math.keio.ac.jp/~matumoto/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)`  
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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

Sockets

-----

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/about/index.html>.

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Floating point exception control



-----  
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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

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```

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## 3.107 pyvmomi 6.5.0.2017.5 :1

### 3.107.1 Available under license :

.. \_int: <https://docs.python.org/2/library/stdtypes.html>

.. \_str: <https://docs.python.org/2/library/stdtypes.html>

.. \_bool: <https://docs.python.org/2/library/stdtypes.html>

.. \_vmodl.DynamicData: ../../vmodl/DynamicData.rst

.. \_vim.ManagedEntity: ../../vim/ManagedEntity.rst

vim.AuthorizationManager.Permission

=====

This data object type provides assignment of some role access to a principal on a specific entity. A ManagedEntity is limited to one permission per principal.

:extends: vmodl.DynamicData\_

Attributes:

entity (vim.ManagedEntity`, optional):

Managed entity the permission is defined on. Left unset when calling setPermissions or resetPermissions, but present for the results of permission queries.

principal (str`\_):

User or group receiving access in the form of "login" for local or "DOMAIN\login" for users in a Windows domain.

group (bool`\_):

Whether principal refers to a user or a group. True for a group and false for a user.

roleId (int`\_):

Reference to the role providing the access.

propagate (bool`\_):

Whether or not this permission propagates down the hierarchy to sub-entities.

.. \_str: <https://docs.python.org/2/library/stdtypes.html>

.. \_vim.fault.VimFault: ../../vim/fault/VimFault.rst

vim.fault.InvalidLicense

=====

:extends:

`vim.fault.VimFault`\_

Thrown when an attempt is made to upload license content that is invalid.

Attributes:

licenseContent (str`\_)

.. \_int: <https://docs.python.org/2/library/stdtypes.html>

.. \_vmodl.fault.NotEnoughLicenses: ../../vmodl/fault/NotEnoughLicenses.rst

vim.fault.VramLimitLicense

=====

:extends:

`vmodl.fault.NotEnoughLicenses`\_

A VramLimitLicense fault is thrown if executing an operation would result in exceeding maximum allowed vRAM

amount. For example, this could happen when powering on a VM, hot-plugging memory into a running VMm, etc.

Attributes:

```
    limit (`int`_)
.. _int: https://docs.python.org/2/library/stdtypes.html

.. _vmodl.fault.NotEnoughLicenses: ../../vmodl/fault/NotEnoughLicenses.rst
```

vim.fault.VmLimitLicense

```
=====
:extends:
```

```
    `vmodl.fault.NotEnoughLicenses`_
```

A VmLimitLicense fault is thrown if powering on the virtual machine would exceed the maximum number of running virtual machines allowed.

Attributes:

```
    limit (`int`_)
.. _int: https://docs.python.org/2/library/stdtypes.html

.. _str: https://docs.python.org/2/library/stdtypes.html

.. _datetime: https://docs.python.org/2/library/stdtypes.html

.. _vmodl.fault.NotEnoughLicenses: ../../vmodl/fault/NotEnoughLicenses.rst
```

vim.fault.ExpiredFeatureLicense

```
=====
:extends:
```

```
    `vmodl.fault.NotEnoughLicenses`_
```

An ExpiredFeatureLicense fault is thrown if an attempt to acquire an Addon license 'feature failed for count 'count'.

Attributes:

```
    feature (`str`_)

    count (`int`_)

    expirationDate (`datetime`_)
.. _vim.fault.ExpiredFeatureLicense: ../../vim/fault/ExpiredFeatureLicense.rst
```

vim.fault.ExpiredAddonLicense

=====

:extends:

  `vim.fault.ExpiredFeatureLicense`\_

An ExpiredAddonLicense fault is thrown if an attempt to acquire an Addon license 'feature failed for count 'count'.

Attributes:

.. \_str: <https://docs.python.org/2/library/stdtypes.html>

.. \_vmodl.fault.NotEnoughLicenses: ../../vmodl/fault/NotEnoughLicenses.rst

vim.fault.InvalidEditionLicense

=====

:extends:

  `vmodl.fault.NotEnoughLicenses`\_

An ExpiredEditionLicense fault is thrown if an attempt to acquire an Edition license 'feature failed for count 'count'.

Attributes:

  feature ( `str`\_ )

.. \_vim.fault.ExpiredFeatureLicense: ../../vim/fault/ExpiredFeatureLicense.rst

vim.fault.ExpiredEditionLicense

=====

:extends:

  `vim.fault.ExpiredFeatureLicense`\_

An ExpiredEditionLicense fault is thrown if an attempt to acquire an Edition license 'feature failed for count 'count'.

Attributes:

.. \_str: <https://docs.python.org/2/library/stdtypes.html>

.. \_vim.LicenseManager.LicenseSource: ../../vim/LicenseManager/LicenseSource.rst

vim.LicenseManager.LocalLicense

=====

Specify license key data to store locally.

:extends: vim.LicenseManager.LicenseSource\_

Attributes:

licenseKeys ( `str`\_):

The size of this string is implementation dependent. It must contain ASCII or ISO Latin-1 characters only.

.. \_long: <https://docs.python.org/2/library/stdtypes.html>

.. \_VI API 2.5: ../../vim/version.rst#vimversionversion2

.. \_vim.LicenseManager.LicenseSource: ../../vim/LicenseManager/LicenseSource.rst

vim.LicenseManager.EvaluationLicense

=====

Specify an evaluation license source. Feature licensing is not required while the remaining hours is greater than zero.

:extends: vim.LicenseManager.LicenseSource\_

:since: `VI API 2.5`\_

Attributes:

remainingHours ( `long`\_, optional):

The number of remaining hours before product evaluation expires

.. \_vmodl.RuntimeFault: ../../vmodl/RuntimeFault.rst

vmodl.fault.NotEnoughLicenses

=====

:extends:

`vmodl.RuntimeFault`\_

A NotEnoughLicensesFault occurs when an operation fails because there are not enough licenses installed.

Attributes:

pyVmomi

=====

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## 3.108 quick-json 1.0.2.3

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 */
```

```
package org.springframework.aop;
```

```
import org.aopalliance.aop.Advice;
```

```
/**
 * Base interface holding AOP advice (action to take at a joinpoint)
 * and a filter determining the applicability of the advice (such as
 * a pointcut). This interface is not for use by Spring users, but to
 * allow for commonality in support for different types of advice.
 *
 * 

Spring AOP is based around around advice delivered via method
 * interception, compliant with the AOP Alliance interception API.
 * The Advisor interface allows support for different types of advice,
 * such as before and after advice, which need not be
 * implemented using interception.


 *
 * @author Rod Johnson
 */
```

```
public interface Advisor {
```

```
/**
 * Return the advice part of this aspect. An advice may be an
 * interceptor, a before advice, a throws advice, etc.
 * @return the advice that should apply if the pointcut matches
 * @see org.aopalliance.intercept.MethodInterceptor
 * @see BeforeAdvice
```

```

* @see ThrowsAdvice
* @see AfterReturningAdvice
*/
Advice getAdvice();

/**
* Return whether this advice is associated with a particular instance
* (for example, creating a mixin) or shared with all instances of
* the advised class obtained from the same Spring bean factory.
* <p><b>Note that this method is not currently used by the framework.</b></p>
* Typical Advisor implementations always return { @code true }.
* Use singleton/prototype bean definitions or appropriate programmatic
* proxy creation to ensure that Advisors have the correct lifecycle model.
* @return whether this advice is associated with a particular target instance
*/
boolean isPerInstance();

}
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## 3.116 spring-security-config 4.2.12

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```
package org.springframework.security.config;
```

```
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.support.RootBeanDefinition;
import org.springframework.beans.factory.xml.BeanDefinitionParser;
import org.springframework.beans.factory.xml.ParserContext;
import org.springframework.security.config.debug.SecurityDebugBeanFactoryPostProcessor;
import org.w3c.dom.Element;
```

```
/**
```

```
 * @author Luke Taylor
```

```
*/
```

```
public class DebugBeanDefinitionParser implements BeanDefinitionParser {
    public BeanDefinition parse(Element element, ParserContext parserContext) {
        RootBeanDefinition debugPP = new RootBeanDefinition(
            SecurityDebugBeanFactoryPostProcessor.class);
        parserContext.getReaderContext().registerWithGeneratedName(debugPP);
```

```
        return null;
```

```
    }
```

```
}
```

```
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```

```
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```

```
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```

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# 3.117 spring-security-core 3.1.4.RELEASE

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\* Implementation of web security expressions.

\*/

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## 3.120 spring-tx 4.3.23

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 */
```

```
package org.springframework.transaction;
```

```
/**
 * Exception that gets thrown when an invalid isolation level is specified,
 * i.e. an isolation level that the transaction manager implementation
 * doesn't support.
 *
 * @author Juergen Hoeller
 * @since 12.05.2003
 */
@SuppressWarnings("serial")
public class InvalidIsolationLevelException extends TransactionUsageException {
```

```
/**
 * Constructor for InvalidIsolationLevelException.
 * @param msg the detail message
 */
public InvalidIsolationLevelException(String msg) {
    super(msg);
}
```

```
}
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```

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## 3.121 spring-web 4.3.23

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 */
```

```
package org.springframework.http.converter.protobuf;
```

```
import com.google.protobuf.ExtensionRegistry;
```

```
/**
 * Google Protocol Messages can contain message extensions that can be parsed if
 * the appropriate configuration has been registered in the { @code ExtensionRegistry }.
 *
 * <p>This interface provides a facility to populate the { @code ExtensionRegistry }.
 *
 * @author Alex Antonov
 * @since 4.1
 * @see <a href="https://developers.google.com/protocol-
 buffers/docs/reference/java/com/google/protobuf/ExtensionRegistry">
 com.google.protobuf.ExtensionRegistry</a>
 */
```

```
public interface ExtensionRegistryInitializer {
```

```
/**
 * Initializes the { @code ExtensionRegistry } with Protocol Message extensions.
 * @param registry the registry to populate
 */
void initializeExtensionRegistry(ExtensionRegistry registry);
```

```
}
```

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## 3.123 stacktrace-js 2.0.0

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## 3.124 String::Util 1.23

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```

```
<signature of Ty Coon>, 1 April 1989
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- javaee\_web\_services\_1\_2.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

may be obtained from:

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```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
```

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```
-->
```

```
<component name="CopyrightManager">
```

```
<settings default="Tomcat" />
```

```
</component>
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
```

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-->

```
<component name="CopyrightManager">
```

```
<copyright>
```

```
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License." />
```

```
<option name="myName" value="Tomcat" />
```

```
</copyright>
```

```
</component>
```

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Year: 2013

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## 3.129 typescript 3.2.1 3.2.1

### 3.129.1 Available under license :

```

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/*****
* (c) Copyright - Important
*****/

import model = require("./greeter")
var el = document.getElementById('content');
var greeter = new model.Greeter(el);
/** things */
greeter.start();

```

```

// @module: amd
/*****

* (c) Copyright - Important
*****/

import model = require("./greeter")
var el = document.getElementById('content');
var greeter = new model.Greeter(el);
/** things */
greeter.start();
//// [copyrightWithoutNewLine1.ts]
/*****

* (c) Copyright - Important
*****/

import model = require("./greeter")
var el = document.getElementById('content');
var greeter = new model.Greeter(el);
/** things */
greeter.start();

//// [copyrightWithoutNewLine1.js]
define(["require", "exports", "./greeter"], function (require, exports, model) {
  "use strict";
  exports.__esModule = true;
  var el = document.getElementById('content');
  var greeter = new model.Greeter(el);
  /** things */
  greeter.start();
});
=== tests/cases/compiler/copyrightWithoutNewLine1.ts ===
/*****

* (c) Copyright - Important
*****/

import model = require("./greeter")
>model : Symbol(model, Decl(copyrightWithoutNewLine1.ts, 0, 0))

var el = document.getElementById('content');
>el : Symbol(el, Decl(copyrightWithoutNewLine1.ts, 4, 3))
>document.getElementById : Symbol(Document.getElementById, Decl(lib.dom.d.ts, --, --))
>document : Symbol(document, Decl(lib.dom.d.ts, --, --))
>getElementById : Symbol(Document.getElementById, Decl(lib.dom.d.ts, --, --))

var greeter = new model.Greeter(el);
>greeter : Symbol(greeter, Decl(copyrightWithoutNewLine1.ts, 5, 3))
>model : Symbol(model, Decl(copyrightWithoutNewLine1.ts, 0, 0))
>el : Symbol(el, Decl(copyrightWithoutNewLine1.ts, 4, 3))

/** things */
greeter.start();

```

```

>greeter : Symbol(greeter, Decl(copyrightWithoutNewLine1.ts, 5, 3))
=== tests/cases/compiler/copyrightWithoutNewLine1.ts ===
/*****
* (c) Copyright - Important
*****/
import model = require("../greeter")
>model : any

var el = document.getElementById('content');
>el : HTMLElement
>document.getElementById('content') : HTMLElement
>document.getElementById : (elementId: string) => HTMLElement
>document : Document
>getElementById : (elementId: string) => HTMLElement
>'content' : "content"

var greeter = new model.Greeter(el);
>greeter : any
>new model.Greeter(el) : any
>model.Greeter : any
>model : any
>Greeter : any
>el : HTMLElement

/** things */
greeter.start();
>greeter.start() : any
>greeter.start : any
>greeter : any
>start : any
/*! *****/

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Version 2.0, January 2004



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tests/cases/compiler/copyrightWithNewLine1.ts(5,24): error TS2307: Cannot find module './greeter'.

```
==== tests/cases/compiler/copyrightWithNewLine1.ts (1 errors) ====
```

```
/*****
```

```
* (c) Copyright - Important
```

```
*****/
```

```
import model = require("./greeter")
```

```
~~~~~
```

```
!!! error TS2307: Cannot find module './greeter'.
```

```
var el = document.getElementById('content');
```

```
var greeter = new model.Greeter(el);
```

```
/** things */
```

```

    greeter.start();
  /// [copyrightWithNewLine1.ts]
  /**
   * (c) Copyright - Important
   */

import model = require("./greeter")
var el = document.getElementById('content');
var greeter = new model.Greeter(el);
/** things */
greeter.start();

  /// [copyrightWithNewLine1.js]
  /**
   * (c) Copyright - Important
   */
define(["require", "exports", "./greeter"], function (require, exports, model) {
  "use strict";
  exports.__esModule = true;
  var el = document.getElementById('content');
  var greeter = new model.Greeter(el);
  /** things */
  greeter.start();
});
=== tests/cases/compiler/copyrightWithNewLine1.ts ===
  /**
   * (c) Copyright - Important
   */

import model = require("./greeter")
>model : Symbol(model, Decl(copyrightWithNewLine1.ts, 0, 0))

var el = document.getElementById('content');
>el : Symbol(el, Decl(copyrightWithNewLine1.ts, 5, 3))
>document.getElementById : Symbol(Document.getElementById, Decl(lib.dom.d.ts, --, --))
>document : Symbol(document, Decl(lib.dom.d.ts, --, --))
>getElementById : Symbol(Document.getElementById, Decl(lib.dom.d.ts, --, --))

var greeter = new model.Greeter(el);
>greeter : Symbol(greeter, Decl(copyrightWithNewLine1.ts, 6, 3))
>model : Symbol(model, Decl(copyrightWithNewLine1.ts, 0, 0))
>el : Symbol(el, Decl(copyrightWithNewLine1.ts, 5, 3))

/** things */
greeter.start();
>greeter : Symbol(greeter, Decl(copyrightWithNewLine1.ts, 6, 3))
=== tests/cases/compiler/copyrightWithNewLine1.ts ===
  /**

```

\* (c) Copyright - Important

\*\*\*\*\*/

```
import model = require("./greeter")
```

```
>model : any
```

```
var el = document.getElementById('content');
```

```
>el : HTMLElement
```

```
>document.getElementById('content') : HTMLElement
```

```
>document.getElementById : (elementId: string) => HTMLElement
```

```
>document : Document
```

```
>getElementById : (elementId: string) => HTMLElement
```

```
>'content' : "content"
```

```
var greeter = new model.Greeter(el);
```

```
>greeter : any
```

```
>new model.Greeter(el) : any
```

```
>model.Greeter : any
```

```
>model : any
```

```
>Greeter : any
```

```
>el : HTMLElement
```

```
/** things */
```

```
greeter.start();
```

```
>greeter.start() : any
```

```
>greeter.start : any
```

```
>greeter : any
```

```
>start : any
```

```
tests/cases/compiler/copyrightWithoutNewLine1.ts(4,24): error TS2307: Cannot find module './greeter'.
```

```
==== tests/cases/compiler/copyrightWithoutNewLine1.ts (1 errors) ====
```

```
*****
```

```
* (c) Copyright - Important
```

```
*****/
```

```
import model = require("./greeter")
```

```
~~~~~
```

```
!!! error TS2307: Cannot find module './greeter'.
```

```
var el = document.getElementById('content');
```

```
var greeter = new model.Greeter(el);
```

```
/** things */
```

```
greeter.start();
```

```
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```

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```
//// [copyrightWithNewLine1.ts]
```

```
/*  
*****  
*/
```

```
* (c) Copyright - Important
```

```
*****  
*/
```

```
import model = require("./greeter")  
var el = document.getElementById('content');  
var greeter = new model.Greeter(el);  
/** things */  
greeter.start();
```

```
//// [copyrightWithNewLine1.js]
```

```
/*  
*****  
*/
```

```
* (c) Copyright - Important
```

```
*****  
*/
```

```
define(["require", "exports", "./greeter"], function (require, exports, model) {  
  "use strict";  
  exports.__esModule = true;  
  var el = document.getElementById('content');  
  var greeter = new model.Greeter(el);  
  /** things */  
  greeter.start();  
});
```

```
//// [copyrightWithoutNewLine1.ts]
```

```
/*  
*****  
*/
```

```
* (c) Copyright - Important
```

```
*****  
*/
```

```
import model = require("./greeter")  
var el = document.getElementById('content');  
var greeter = new model.Greeter(el);  
/** things */  
greeter.start();
```

```

//// [copyrightWithoutNewLine1.js]
define(["require", "exports", "./greeter"], function (require, exports, model) {
  "use strict";
  exports.__esModule = true;
  var el = document.getElementById('content');
  var greeter = new model.Greeter(el);
  /** things */
  greeter.start();
});
/*! *****
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```
***** */
```

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GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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## 3.131 underscore 1.8.3

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```
// Underscore.js 1.8.3
// http://underscorejs.org
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```



```

(function() {

// Baseline setup
// -----

// Establish the root object, `window` in the browser, or `exports` on the server.
var root = this;

// Save the previous value of the `_` variable.
var previousUnderscore = root._;

// Save bytes in the minified (but not gzipped) version:
var ArrayProto = Array.prototype, ObjProto = Object.prototype, FuncProto = Function.prototype;

// Create quick reference variables for speed access to core prototypes.
var
  push      = ArrayProto.push,
  slice     = ArrayProto.slice,
  toString  = ObjProto.toString,
  hasOwnProperty = ObjProto.hasOwnProperty;

// All **ECMAScript 5** native function implementations that we hope to use
// are declared here.
var
  nativeIsArray = Array.isArray,
  nativeKeys = Object.keys,
  nativeBind = FuncProto.bind,
  nativeCreate = Object.create;

// Naked function reference for surrogate-prototype-swapping.
var Ctor = function(){};

// Create a safe reference to the Underscore object for use below.
var _ = function(obj) {
  if (obj instanceof _) return obj;
  if (!(this instanceof _)) return new _(obj);
  this._wrapped = obj;
};

// Export the Underscore object for **Node.js**, with
// backwards-compatibility for the old `require()` API. If we're in
// the browser, add `_` as a global object.
if (typeof exports !== 'undefined') {
  if (typeof module !== 'undefined' && module.exports) {
    exports = module.exports = _;
  }
  exports._ = _;
}

```

```

} else {
  root._ = _;
}

// Current version.
_.VERSION = '1.8.3';

// Internal function that returns an efficient (for current engines) version
// of the passed-in callback, to be repeatedly applied in other Underscore
// functions.
var optimizeCb = function(func, context, argCount) {
  if (context === void 0) return func;
  switch (argCount == null ? 3 : argCount) {
    case 1: return function(value) {
      return func.call(context, value);
    };
    case 2: return function(value, other) {
      return func.call(context, value, other);
    };
    case 3: return function(value, index, collection) {
      return func.call(context, value, index, collection);
    };
    case 4: return function(accumulator, value, index, collection) {
      return func.call(context, accumulator, value, index, collection);
    };
  }
  return function() {
    return func.apply(context, arguments);
  };
};

// A mostly-internal function to generate callbacks that can be applied
// to each element in a collection, returning the desired result either
// identity, an arbitrary callback, a property matcher, or a property accessor.
var cb = function(value, context, argCount) {
  if (value == null) return _.identity;
  if (_.isFunction(value)) return optimizeCb(value, context, argCount);
  if (_.isObject(value)) return _.matcher(value);
  return _.property(value);
};
_.iteratee = function(value, context) {
  return cb(value, context, Infinity);
};

// An internal function for creating assigner functions.
var createAssigner = function(keysFunc, undefinedOnly) {
  return function(obj) {
    var length = arguments.length;

```

```

if (length < 2 || obj == null) return obj;
for (var index = 1; index < length; index++) {
  var source = arguments[index],
      keys = keysFunc(source),
      l = keys.length;
  for (var i = 0; i < l; i++) {
    var key = keys[i];
    if (!undefinedOnly || obj[key] === void 0) obj[key] = source[key];
  }
}
return obj;
};
};

// An internal function for creating a new object that inherits from another.
var baseCreate = function(prototype) {
  if (!_isObject(prototype)) return {};
  if (nativeCreate) return nativeCreate(prototype);
  Ctor.prototype = prototype;
  var result = new Ctor;
  Ctor.prototype = null;
  return result;
};

var property = function(key) {
  return function(obj) {
    return obj == null ? void 0 : obj[key];
  };
};

// Helper for collection methods to determine whether a collection
// should be iterated as an array or as an object
// Related: http://people.mozilla.org/~jorendorff/es6-draft.html#sec-tolength
// Avoids a very nasty iOS 8 JIT bug on ARM-64. #2094
var MAX_ARRAY_INDEX = Math.pow(2, 53) - 1;
var getLength = property('length');
var isArrayLike = function(collection) {
  var length = getLength(collection);
  return typeof length == 'number' && length >= 0 && length <= MAX_ARRAY_INDEX;
};

// Collection Functions
// -----

// The cornerstone, an `each` implementation, aka `forEach`.
// Handles raw objects in addition to array-likes. Treats all
// sparse array-likes as if they were dense.
_.each = _.forEach = function(obj, iteratee, context) {

```

```

iteratee = optimizeCb(iteratee, context);
var i, length;
if (isArrayLike(obj)) {
  for (i = 0, length = obj.length; i < length; i++) {
    iteratee(obj[i], i, obj);
  }
} else {
  var keys = _.keys(obj);
  for (i = 0, length = keys.length; i < length; i++) {
    iteratee(obj[keys[i]], keys[i], obj);
  }
}
return obj;
};

// Return the results of applying the iteratee to each element.
_.map = _.collect = function(obj, iteratee, context) {
  iteratee = cb(iteratee, context);
  var keys = !isArrayLike(obj) && _.keys(obj),
      length = (keys || obj).length,
      results = Array(length);
  for (var index = 0; index < length; index++) {
    var currentKey = keys ? keys[index] : index;
    results[index] = iteratee(obj[currentKey], currentKey, obj);
  }
  return results;
};

// Create a reducing function iterating left or right.
function createReduce(dir) {
  // Optimized iterator function as using arguments.length
  // in the main function will deoptimize the, see #1991.
  function iterator(obj, iteratee, memo, keys, index, length) {
    for (; index >= 0 && index < length; index += dir) {
      var currentKey = keys ? keys[index] : index;
      memo = iteratee(memo, obj[currentKey], currentKey, obj);
    }
    return memo;
  }
}

return function(obj, iteratee, memo, context) {
  iteratee = optimizeCb(iteratee, context, 4);
  var keys = !isArrayLike(obj) && _.keys(obj),
      length = (keys || obj).length,
      index = dir > 0 ? 0 : length - 1;
  // Determine the initial value if none is provided.
  if (arguments.length < 3) {
    memo = obj[keys ? keys[index] : index];
  }

```

```

    index += dir;
  }
  return iterator(obj, iteratee, memo, keys, index, length);
};
}

/**Reduce** builds up a single result from a list of values, aka `inject`,
// or `foldl`.
_.reduce = _.foldl = _.inject = createReduce(1);

// The right-associative version of reduce, also known as `foldr`.
_.reduceRight = _.foldr = createReduce(-1);

// Return the first value which passes a truth test. Aliased as `detect`.
_.find = _.detect = function(obj, predicate, context) {
  var key;
  if (isArrayLike(obj)) {
    key = _.findIndex(obj, predicate, context);
  } else {
    key = _.findKey(obj, predicate, context);
  }
  if (key !== void 0 && key !== -1) return obj[key];
};

// Return all the elements that pass a truth test.
// Aliased as `select`.
_.filter = _.select = function(obj, predicate, context) {
  var results = [];
  predicate = cb(predicate, context);
  _.each(obj, function(value, index, list) {
    if (predicate(value, index, list)) results.push(value);
  });
  return results;
};

// Return all the elements for which a truth test fails.
_.reject = function(obj, predicate, context) {
  return _.filter(obj, _.negate(cb(predicate)), context);
};

// Determine whether all of the elements match a truth test.
// Aliased as `all`.
_.every = _.all = function(obj, predicate, context) {
  predicate = cb(predicate, context);
  var keys = !isArrayLike(obj) && _.keys(obj),
      length = (keys || obj).length;
  for (var index = 0; index < length; index++) {
    var currentKey = keys ? keys[index] : index;

```

```

    if (!predicate(obj[currentKey], currentKey, obj)) return false;
  }
  return true;
};

// Determine if at least one element in the object matches a truth test.
// Aliased as `any`.
_.some = _.any = function(obj, predicate, context) {
  predicate = cb(predicate, context);
  var keys = !isArrayLike(obj) && _.keys(obj),
      length = (keys || obj).length;
  for (var index = 0; index < length; index++) {
    var currentKey = keys ? keys[index] : index;
    if (predicate(obj[currentKey], currentKey, obj)) return true;
  }
  return false;
};

// Determine if the array or object contains a given item (using `===`).
// Aliased as `includes` and `include`.
_.contains = _.includes = _.include = function(obj, item, fromIndex, guard) {
  if (!isArrayLike(obj)) obj = _.values(obj);
  if (typeof fromIndex != 'number' || guard) fromIndex = 0;
  return _.indexOf(obj, item, fromIndex) >= 0;
};

// Invoke a method (with arguments) on every item in a collection.
_.invoke = function(obj, method) {
  var args = slice.call(arguments, 2);
  var isFunc = _.isFunction(method);
  return _.map(obj, function(value) {
    var func = isFunc ? method : value[method];
    return func == null ? func : func.apply(value, args);
  });
};

// Convenience version of a common use case of `map`: fetching a property.
_.pluck = function(obj, key) {
  return _.map(obj, _.property(key));
};

// Convenience version of a common use case of `filter`: selecting only objects
// containing specific `key:value` pairs.
_.where = function(obj, attrs) {
  return _.filter(obj, _.matcher(attrs));
};

// Convenience version of a common use case of `find`: getting the first object

```

```

// containing specific `key:value` pairs.
_.findWhere = function(obj, attrs) {
  return _.find(obj, _.matcher(attrs));
};

// Return the maximum element (or element-based computation).
_.max = function(obj, iteratee, context) {
  var result = -Infinity, lastComputed = -Infinity,
      value, computed;
  if (iteratee == null && obj != null) {
    obj = isArrayLike(obj) ? obj : _.values(obj);
    for (var i = 0, length = obj.length; i < length; i++) {
      value = obj[i];
      if (value > result) {
        result = value;
      }
    }
  } else {
    iteratee = cb(iteratee, context);
    _.each(obj, function(value, index, list) {
      computed = iteratee(value, index, list);
      if (computed > lastComputed || computed === -Infinity && result === -Infinity) {
        result = value;
        lastComputed = computed;
      }
    });
  }
  return result;
};

// Return the minimum element (or element-based computation).
_.min = function(obj, iteratee, context) {
  var result = Infinity, lastComputed = Infinity,
      value, computed;
  if (iteratee == null && obj != null) {
    obj = isArrayLike(obj) ? obj : _.values(obj);
    for (var i = 0, length = obj.length; i < length; i++) {
      value = obj[i];
      if (value < result) {
        result = value;
      }
    }
  } else {
    iteratee = cb(iteratee, context);
    _.each(obj, function(value, index, list) {
      computed = iteratee(value, index, list);
      if (computed < lastComputed || computed === Infinity && result === Infinity) {
        result = value;
      }
    });
  }
  return result;
};

```

```

    lastComputed = computed;
  }
});
}
return result;
};

// Shuffle a collection, using the modern version of the
// [Fisher-Yates shuffle](http://en.wikipedia.org/wiki/FisherYates_shuffle).
_.shuffle = function(obj) {
  var set = isArrayLike(obj) ? obj : _.values(obj);
  var length = set.length;
  var shuffled = Array(length);
  for (var index = 0, rand; index < length; index++) {
    rand = _.random(0, index);
    if (rand !== index) shuffled[index] = shuffled[rand];
    shuffled[rand] = set[index];
  }
  return shuffled;
};

// Sample n random values from a collection.
// If n is not specified, returns a single random element.
// The internal `guard` argument allows it to work with `map`.
_.sample = function(obj, n, guard) {
  if (n == null || guard) {
    if (!isArrayLike(obj)) obj = _.values(obj);
    return obj[_.random(obj.length - 1)];
  }
  return _.shuffle(obj).slice(0, Math.max(0, n));
};

// Sort the object's values by a criterion produced by an iteratee.
_.sortBy = function(obj, iteratee, context) {
  iteratee = cb(iteratee, context);
  return _.pluck(_.map(obj, function(value, index, list) {
    return {
      value: value,
      index: index,
      criteria: iteratee(value, index, list)
    };
  })).sort(function(left, right) {
    var a = left.criteria;
    var b = right.criteria;
    if (a !== b) {
      if (a > b || a === void 0) return 1;
      if (a < b || b === void 0) return -1;
    }
  })
};

```



```

    return left.index - right.index;
  }}, 'value');
};

// An internal function used for aggregate "group by" operations.
var group = function(behavior) {
  return function(obj, iteratee, context) {
    var result = {};
    iteratee = cb(iteratee, context);
    _each(obj, function(value, index) {
      var key = iteratee(value, index, obj);
      behavior(result, value, key);
    });
    return result;
  };
};

// Groups the object's values by a criterion. Pass either a string attribute
// to group by, or a function that returns the criterion.
_.groupBy = group(function(result, value, key) {
  if (!_has(result, key)) result[key].push(value); else result[key] = [value];
});

// Indexes the object's values by a criterion, similar to `groupBy`, but for
// when you know that your index values will be unique.
_.indexBy = group(function(result, value, key) {
  result[key] = value;
});

// Counts instances of an object that group by a certain criterion. Pass
// either a string attribute to count by, or a function that returns the
// criterion.
_.countBy = group(function(result, value, key) {
  if (!_has(result, key)) result[key]++; else result[key] = 1;
});

// Safely create a real, live array from anything iterable.
_.toArray = function(obj) {
  if (!obj) return [];
  if (_isArray(obj)) return slice.call(obj);
  if (isArrayLike(obj)) return _map(obj, _identity);
  return _values(obj);
};

// Return the number of elements in an object.
_.size = function(obj) {
  if (obj == null) return 0;
  return isArrayLike(obj) ? obj.length : _keys(obj).length;
};

```

```

};

// Split a collection into two arrays: one whose elements all satisfy the given
// predicate, and one whose elements all do not satisfy the predicate.
_.partition = function(obj, predicate, context) {
  predicate = cb(predicate, context);
  var pass = [], fail = [];
  _.each(obj, function(value, key, obj) {
    (predicate(value, key, obj) ? pass : fail).push(value);
  });
  return [pass, fail];
};

// Array Functions
// -----

// Get the first element of an array. Passing n will return the first N
// values in the array. Aliased as `head` and `take`. The guard check
// allows it to work with `_.map`.
_.first = _.head = _.take = function(array, n, guard) {
  if (array == null) return void 0;
  if (n == null || guard) return array[0];
  return _.initial(array, array.length - n);
};

// Returns everything but the last entry of the array. Especially useful on
// the arguments object. Passing n will return all the values in
// the array, excluding the last N.
_.initial = function(array, n, guard) {
  return slice.call(array, 0, Math.max(0, array.length - (n == null || guard ? 1 : n)));
};

// Get the last element of an array. Passing n will return the last N
// values in the array.
_.last = function(array, n, guard) {
  if (array == null) return void 0;
  if (n == null || guard) return array[array.length - 1];
  return _.rest(array, Math.max(0, array.length - n));
};

// Returns everything but the first entry of the array. Aliased as `tail` and `drop`.
// Especially useful on the arguments object. Passing an n will return
// the rest N values in the array.
_.rest = _.tail = _.drop = function(array, n, guard) {
  return slice.call(array, n == null || guard ? 1 : n);
};

// Trim out all falsy values from an array.

```

```

_.compact = function(array) {
  return _.filter(array, _.identity);
};

// Internal implementation of a recursive `flatten` function.
var flatten = function(input, shallow, strict, startIndex) {
  var output = [], idx = 0;
  for (var i = startIndex || 0, length = getLength(input); i < length; i++) {
    var value = input[i];
    if (isArrayLike(value) && (!_isArray(value) || !_isArguments(value))) {
      //flatten current level of array or arguments object
      if (!shallow) value = flatten(value, shallow, strict);
      var j = 0, len = value.length;
      output.length += len;
      while (j < len) {
        output[idx++] = value[j++];
      }
    } else if (!strict) {
      output[idx++] = value;
    }
  }
  return output;
};

// Flatten out an array, either recursively (by default), or just one level.
_.flatten = function(array, shallow) {
  return flatten(array, shallow, false);
};

// Return a version of the array that does not contain the specified value(s).
_.without = function(array) {
  return _difference(array, slice.call(arguments, 1));
};

// Produce a duplicate-free version of the array. If the array has already
// been sorted, you have the option of using a faster algorithm.
// Aliased as `unique`.
_.uniq = _.unique = function(array, isSorted, iteratee, context) {
  if (!_isBoolean(isSorted)) {
    context = iteratee;
    iteratee = isSorted;
    isSorted = false;
  }
  if (iteratee != null) iteratee = cb(iteratee, context);
  var result = [];
  var seen = [];
  for (var i = 0, length = getLength(array); i < length; i++) {
    var value = array[i],

```

```

    computed = iteratee ? iteratee(value, i, array) : value;
  if (isSorted) {
    if (!i || seen !== computed) result.push(value);
    seen = computed;
  } else if (iteratee) {
    if (!_contains(seen, computed)) {
      seen.push(computed);
      result.push(value);
    }
  } else if (!_contains(result, value)) {
    result.push(value);
  }
}
return result;
};

// Produce an array that contains the union: each distinct element from all of
// the passed-in arrays.
_.union = function() {
  return _.uniq(flatten(arguments, true, true));
};

// Produce an array that contains every item shared between all the
// passed-in arrays.
_.intersection = function(array) {
  var result = [];
  var argsLength = arguments.length;
  for (var i = 0, length = getLength(array); i < length; i++) {
    var item = array[i];
    if (!_contains(result, item)) continue;
    for (var j = 1; j < argsLength; j++) {
      if (!_contains(arguments[j], item)) break;
    }
    if (j === argsLength) result.push(item);
  }
  return result;
};

// Take the difference between one array and a number of other arrays.
// Only the elements present in just the first array will remain.
_.difference = function(array) {
  var rest = flatten(arguments, true, true, 1);
  return _.filter(array, function(value){
    return !_contains(rest, value);
  });
};

// Zip together multiple lists into a single array -- elements that share

```

```

// an index go together.
_.zip = function() {
  return _.unzip(arguments);
};

// Complement of _.zip. Unzip accepts an array of arrays and groups
// each array's elements on shared indices
_.unzip = function(array) {
  var length = array && _.max(array, getLength).length || 0;
  var result = Array(length);

  for (var index = 0; index < length; index++) {
    result[index] = _.pluck(array, index);
  }
  return result;
};

// Converts lists into objects. Pass either a single array of `[key, value]`
// pairs, or two parallel arrays of the same length -- one of keys, and one of
// the corresponding values.
_.object = function(list, values) {
  var result = {};
  for (var i = 0, length = getLength(list); i < length; i++) {
    if (values) {
      result[list[i]] = values[i];
    } else {
      result[list[i][0]] = list[i][1];
    }
  }
  return result;
};

// Generator function to create the findIndex and findLastIndex functions
function createPredicateIndexFinder(dir) {
  return function(array, predicate, context) {
    predicate = cb(predicate, context);
    var length = getLength(array);
    var index = dir > 0 ? 0 : length - 1;
    for (; index >= 0 && index < length; index += dir) {
      if (predicate(array[index], index, array)) return index;
    }
    return -1;
  };
}

// Returns the first index on an array-like that passes a predicate test
_.findIndex = createPredicateIndexFinder(1);
_.findLastIndex = createPredicateIndexFinder(-1);

```

```

// Use a comparator function to figure out the smallest index at which
// an object should be inserted so as to maintain order. Uses binary search.
_.sortedIndex = function(array, obj, iteratee, context) {
  iteratee = cb(iteratee, context, 1);
  var value = iteratee(obj);
  var low = 0, high = getLength(array);
  while (low < high) {
    var mid = Math.floor((low + high) / 2);
    if (iteratee(array[mid]) < value) low = mid + 1; else high = mid;
  }
  return low;
};

// Generator function to create the indexOf and lastIndexOf functions
function createIndexFinder(dir, predicateFind, sortedIndex) {
  return function(array, item, idx) {
    var i = 0, length = getLength(array);
    if (typeof idx == 'number') {
      if (dir > 0) {
        i = idx >= 0 ? idx : Math.max(idx + length, i);
      } else {
        length = idx >= 0 ? Math.min(idx + 1, length) : idx + length + 1;
      }
    } else if (sortedIndex && idx && length) {
      idx = sortedIndex(array, item);
      return array[idx] === item ? idx : -1;
    }
    if (item !== item) {
      idx = predicateFind(slice.call(array, i, length), _.isNaN);
      return idx >= 0 ? idx + i : -1;
    }
    for (idx = dir > 0 ? i : length - 1; idx >= 0 && idx < length; idx += dir) {
      if (array[idx] === item) return idx;
    }
    return -1;
  };
}

// Return the position of the first occurrence of an item in an array,
// or -1 if the item is not included in the array.
// If the array is large and already in sort order, pass `true`
// for `isSorted` to use binary search.
_.indexOf = createIndexFinder(1, _.findIndex, _.sortedIndex);
_.lastIndexOf = createIndexFinder(-1, _.findLastIndex);

// Generate an integer Array containing an arithmetic progression. A port of
// the native Python `range()` function. See

```

```

// [the Python documentation](http://docs.python.org/library/functions.html#range).
_.range = function(start, stop, step) {
  if (stop == null) {
    stop = start || 0;
    start = 0;
  }
  step = step || 1;

  var length = Math.max(Math.ceil((stop - start) / step), 0);
  var range = Array(length);

  for (var idx = 0; idx < length; idx++, start += step) {
    range[idx] = start;
  }

  return range;
};

// Function (ahem) Functions
// -----

// Determines whether to execute a function as a constructor
// or a normal function with the provided arguments
var executeBound = function(sourceFunc, boundFunc, context, callingContext, args) {
  if (!(callingContext instanceof boundFunc)) return sourceFunc.apply(context, args);
  var self = baseCreate(sourceFunc.prototype);
  var result = sourceFunc.apply(self, args);
  if (_isObject(result)) return result;
  return self;
};

// Create a function bound to a given object (assigning `this`, and arguments,
// optionally). Delegates to ECMAScript 5's native `Function.bind` if
// available.
_.bind = function(func, context) {
  if (nativeBind && func.bind === nativeBind) return nativeBind.apply(func, slice.call(arguments, 1));
  if (!_isFunction(func)) throw new TypeError('Bind must be called on a function');
  var args = slice.call(arguments, 2);
  var bound = function() {
    return executeBound(func, bound, context, this, args.concat(slice.call(arguments)));
  };
  return bound;
};

// Partially apply a function by creating a version that has had some of its
// arguments pre-filled, without changing its dynamic `this` context. _ acts
// as a placeholder, allowing any combination of arguments to be pre-filled.
_.partial = function(func) {

```

```

var boundArgs = slice.call(arguments, 1);
var bound = function() {
  var position = 0, length = boundArgs.length;
  var args = Array(length);
  for (var i = 0; i < length; i++) {
    args[i] = boundArgs[i] === _ ? arguments[position++] : boundArgs[i];
  }
  while (position < arguments.length) args.push(arguments[position++]);
  return executeBound(func, bound, this, this, args);
};
return bound;
};

// Bind a number of an object's methods to that object. Remaining arguments
// are the method names to be bound. Useful for ensuring that all callbacks
// defined on an object belong to it.
_.bindAll = function(obj) {
  var i, length = arguments.length, key;
  if (length <= 1) throw new Error('bindAll must be passed function names');
  for (i = 1; i < length; i++) {
    key = arguments[i];
    obj[key] = _.bind(obj[key], obj);
  }
  return obj;
};

// Memoize an expensive function by storing its results.
_.memoize = function(func, hasher) {
  var memoize = function(key) {
    var cache = memoize.cache;
    var address = " + (hasher ? hasher.apply(this, arguments) : key);
    if (!_has(cache, address)) cache[address] = func.apply(this, arguments);
    return cache[address];
  };
  memoize.cache = {};
  return memoize;
};

// Delays a function for the given number of milliseconds, and then calls
// it with the arguments supplied.
_.delay = function(func, wait) {
  var args = slice.call(arguments, 2);
  return setTimeout(function(){
    return func.apply(null, args);
  }, wait);
};

// Defers a function, scheduling it to run after the current call stack has

```



```

// cleared.
_.defer = _.partial(_.delay, _, 1);

// Returns a function, that, when invoked, will only be triggered at most once
// during a given window of time. Normally, the throttled function will run
// as much as it can, without ever going more than once per `wait` duration;
// but if you'd like to disable the execution on the leading edge, pass
// `{leading: false}`. To disable execution on the trailing edge, ditto.
_.throttle = function(func, wait, options) {
  var context, args, result;
  var timeout = null;
  var previous = 0;
  if (!options) options = {};
  var later = function() {
    previous = options.leading === false ? 0 : _.now();
    timeout = null;
    result = func.apply(context, args);
    if (!timeout) context = args = null;
  };
  return function() {
    var now = _.now();
    if (!previous && options.leading === false) previous = now;
    var remaining = wait - (now - previous);
    context = this;
    args = arguments;
    if (remaining <= 0 || remaining > wait) {
      if (timeout) {
        clearTimeout(timeout);
        timeout = null;
      }
      previous = now;
      result = func.apply(context, args);
      if (!timeout) context = args = null;
    } else if (!timeout && options.trailing !== false) {
      timeout = setTimeout(later, remaining);
    }
    return result;
  };
};

// Returns a function, that, as long as it continues to be invoked, will not
// be triggered. The function will be called after it stops being called for
// N milliseconds. If `immediate` is passed, trigger the function on the
// leading edge, instead of the trailing.
_.debounce = function(func, wait, immediate) {
  var timeout, args, context, timestamp, result;

  var later = function() {

```

```

var last = _.now() - timestamp;

if (last < wait && last >= 0) {
  timeout = setTimeout(later, wait - last);
} else {
  timeout = null;
  if (!immediate) {
    result = func.apply(context, args);
    if (!timeout) context = args = null;
  }
}
};

return function() {
  context = this;
  args = arguments;
  timestamp = _.now();
  var callNow = immediate && !timeout;
  if (!timeout) timeout = setTimeout(later, wait);
  if (callNow) {
    result = func.apply(context, args);
    context = args = null;
  }

  return result;
};

// Returns the first function passed as an argument to the second,
// allowing you to adjust arguments, run code before and after, and
// conditionally execute the original function.
_.wrap = function(func, wrapper) {
  return _.partial(wrapper, func);
};

// Returns a negated version of the passed-in predicate.
_.negate = function(predicate) {
  return function() {
    return !predicate.apply(this, arguments);
  };
};

// Returns a function that is the composition of a list of functions, each
// consuming the return value of the function that follows.
_.compose = function() {
  var args = arguments;
  var start = args.length - 1;
  return function() {

```

```

    var i = start;
    var result = args[start].apply(this, arguments);
    while (i--) result = args[i].call(this, result);
    return result;
  };
};

// Returns a function that will only be executed on and after the Nth call.
_.after = function(times, func) {
  return function() {
    if (--times < 1) {
      return func.apply(this, arguments);
    }
  };
};

// Returns a function that will only be executed up to (but not including) the Nth call.
_.before = function(times, func) {
  var memo;
  return function() {
    if (--times > 0) {
      memo = func.apply(this, arguments);
    }
    if (times <= 1) func = null;
    return memo;
  };
};

// Returns a function that will be executed at most one time, no matter how
// often you call it. Useful for lazy initialization.
_.once = _.partial(_.before, 2);

// Object Functions
// -----

// Keys in IE < 9 that won't be iterated by `for key in ...` and thus missed.
var hasEnumBug = !{toString: null}.propertyIsEnumerable('toString');
var nonEnumerableProps = ['valueOf', 'isPrototypeOf', 'toString',
  'propertyIsEnumerable', 'hasOwnProperty', 'toLocaleString'];

function collectNonEnumProps(obj, keys) {
  var nonEnumIdx = nonEnumerableProps.length;
  var constructor = obj.constructor;
  var proto = (_.isFunction(constructor) && constructor.prototype) || ObjProto;

  // Constructor is a special case.
  var prop = 'constructor';
  if (_.has(obj, prop) && !_contains(keys, prop)) keys.push(prop);

```

```

while (nonEnumIdx--) {
  prop = nonEnumerableProps[nonEnumIdx];
  if (prop in obj && obj[prop] !== proto[prop] && !_contains(keys, prop)) {
    keys.push(prop);
  }
}
}

```

```

// Retrieve the names of an object's own properties.
// Delegates to **ECMAScript 5**'s native `Object.keys`
_.keys = function(obj) {
  if (!_isObject(obj)) return [];
  if (nativeKeys) return nativeKeys(obj);
  var keys = [];
  for (var key in obj) if (_has(obj, key)) keys.push(key);
  // Ahem, IE < 9.
  if (hasEnumBug) collectNonEnumProps(obj, keys);
  return keys;
};

```

```

// Retrieve all the property names of an object.
_.allKeys = function(obj) {
  if (!_isObject(obj)) return [];
  var keys = [];
  for (var key in obj) keys.push(key);
  // Ahem, IE < 9.
  if (hasEnumBug) collectNonEnumProps(obj, keys);
  return keys;
};

```

```

// Retrieve the values of an object's properties.
_.values = function(obj) {
  var keys = _.keys(obj);
  var length = keys.length;
  var values = Array(length);
  for (var i = 0; i < length; i++) {
    values[i] = obj[keys[i]];
  }
  return values;
};

```

```

// Returns the results of applying the iteratee to each element of the object
// In contrast to _.map it returns an object
_.mapObject = function(obj, iteratee, context) {
  iteratee = cb(iteratee, context);
  var keys = _.keys(obj),
      length = keys.length,

```

```

    results = {},
    currentKey;
for (var index = 0; index < length; index++) {
    currentKey = keys[index];
    results[currentKey] = iteratee(obj[currentKey], currentKey, obj);
}
return results;
};

// Convert an object into a list of `[key, value]` pairs.
_.pairs = function(obj) {
    var keys = _.keys(obj);
    var length = keys.length;
    var pairs = Array(length);
    for (var i = 0; i < length; i++) {
        pairs[i] = [keys[i], obj[keys[i]]];
    }
    return pairs;
};

// Invert the keys and values of an object. The values must be serializable.
_.invert = function(obj) {
    var result = {};
    var keys = _.keys(obj);
    for (var i = 0, length = keys.length; i < length; i++) {
        result[obj[keys[i]]] = keys[i];
    }
    return result;
};

// Return a sorted list of the function names available on the object.
// Aliased as `methods`
_.functions = _.methods = function(obj) {
    var names = [];
    for (var key in obj) {
        if (_isFunction(obj[key])) names.push(key);
    }
    return names.sort();
};

// Extend a given object with all the properties in passed-in object(s).
_.extend = createAssigner(_.allKeys);

// Assigns a given object with all the own properties in the passed-in object(s)
// (https://developer.mozilla.org/docs/Web/JavaScript/Reference/Global\_Objects/Object/assign)
_.extendOwn = _.assign = createAssigner(_.keys);

// Returns the first key on an object that passes a predicate test

```

```

_.findKey = function(obj, predicate, context) {
  predicate = cb(predicate, context);
  var keys = _.keys(obj), key;
  for (var i = 0, length = keys.length; i < length; i++) {
    key = keys[i];
    if (predicate(obj[key], key, obj)) return key;
  }
};

// Return a copy of the object only containing the whitelisted properties.
_.pick = function(object, oiteratee, context) {
  var result = {}, obj = object, iteratee, keys;
  if (obj == null) return result;
  if (_.isFunction(oiteratee)) {
    keys = _.allKeys(obj);
    iteratee = optimizeCb(oiteratee, context);
  } else {
    keys = flatten(arguments, false, false, 1);
    iteratee = function(value, key, obj) { return key in obj; };
    obj = Object(obj);
  }
  for (var i = 0, length = keys.length; i < length; i++) {
    var key = keys[i];
    var value = obj[key];
    if (iteratee(value, key, obj)) result[key] = value;
  }
  return result;
};

// Return a copy of the object without the blacklisted properties.
_.omit = function(obj, iteratee, context) {
  if (_.isFunction(iteratee)) {
    iteratee = _.negate(iteratee);
  } else {
    var keys = _.map(flatten(arguments, false, false, 1), String);
    iteratee = function(value, key) {
      return !_.contains(keys, key);
    };
  }
  return _.pick(obj, iteratee, context);
};

// Fill in a given object with default properties.
_.defaults = createAssigner(_.allKeys, true);

// Creates an object that inherits from the given prototype object.
// If additional properties are provided then they will be added to the
// created object.

```

```

_.create = function(prototype, props) {
  var result = baseCreate(prototype);
  if (props) _.extendOwn(result, props);
  return result;
};

// Create a (shallow-cloned) duplicate of an object.
_.clone = function(obj) {
  if (!_isObject(obj)) return obj;
  return _.isArray(obj) ? obj.slice() : _.extend({}, obj);
};

// Invokes interceptor with the obj, and then returns obj.
// The primary purpose of this method is to "tap into" a method chain, in
// order to perform operations on intermediate results within the chain.
_.tap = function(obj, interceptor) {
  interceptor(obj);
  return obj;
};

// Returns whether an object has a given set of `key:value` pairs.
_.isMatch = function(object, attrs) {
  var keys = _.keys(attrs), length = keys.length;
  if (object == null) return !length;
  var obj = Object(object);
  for (var i = 0; i < length; i++) {
    var key = keys[i];
    if (attrs[key] !== obj[key] || !(key in obj)) return false;
  }
  return true;
};

// Internal recursive comparison function for `isEqual`.
var eq = function(a, b, aStack, bStack) {
  // Identical objects are equal. `0 === -0`, but they aren't identical.
  // See the [Harmony `egal` proposal](http://wiki.ecmascript.org/doku.php?id=harmony:egal).
  if (a === b) return a !== 0 || 1 / a === 1 / b;
  // A strict comparison is necessary because `null == undefined`.
  if (a == null || b == null) return a === b;
  // Unwrap any wrapped objects.
  if (a instanceof _) a = a._wrapped;
  if (b instanceof _) b = b._wrapped;
  // Compare `[[Class]]` names.
  var className = toString.call(a);
  if (className !== toString.call(b)) return false;
  switch (className) {
    // Strings, numbers, regular expressions, dates, and booleans are compared by value.

```

```

case '[object RegExp]':
// RegExps are coerced to strings for comparison (Note: " + /a/i === '/a/i')
case '[object String]':
// Primitives and their corresponding object wrappers are equivalent; thus, ``5`` is
// equivalent to `new String("5")`.
return " + a === " + b;
case '[object Number]':
// `NaN`'s are equivalent, but non-reflexive.
// Object(NaN) is equivalent to NaN
if (+a !== +a) return +b !== +b;
// An `egal` comparison is performed for other numeric values.
return +a === 0 ? 1 / +a === 1 / b : +a === +b;
case '[object Date]':
case '[object Boolean]':
// Coerce dates and booleans to numeric primitive values. Dates are compared by their
// millisecond representations. Note that invalid dates with millisecond representations
// of `NaN` are not equivalent.
return +a === +b;
}

var areArrays = className === '[object Array]';
if (!areArrays) {
if (typeof a !== 'object' || typeof b !== 'object') return false;

// Objects with different constructors are not equivalent, but `Object`'s or `Array`'s
// from different frames are.
var aCtor = a.constructor, bCtor = b.constructor;
if (aCtor !== bCtor && !(_isFunction(aCtor) && aCtor instanceof aCtor &&
    _isFunction(bCtor) && bCtor instanceof bCtor)
    && ('constructor' in a && 'constructor' in b)) {
return false;
}
}

// Assume equality for cyclic structures. The algorithm for detecting cyclic
// structures is adapted from ES 5.1 section 15.12.3, abstract operation `JO`.

// Initializing stack of traversed objects.
// It's done here since we only need them for objects and arrays comparison.
aStack = aStack || [];
bStack = bStack || [];
var length = aStack.length;
while (length--) {
// Linear search. Performance is inversely proportional to the number of
// unique nested structures.
if (aStack[length] === a) return bStack[length] === b;
}

// Add the first object to the stack of traversed objects.

```



```

aStack.push(a);
bStack.push(b);

// Recursively compare objects and arrays.
if (areArrays) {
    // Compare array lengths to determine if a deep comparison is necessary.
    length = a.length;
    if (length !== b.length) return false;
    // Deep compare the contents, ignoring non-numeric properties.
    while (length--) {
        if (!eq(a[length], b[length], aStack, bStack)) return false;
    }
} else {
    // Deep compare objects.
    var keys = _.keys(a), key;
    length = keys.length;
    // Ensure that both objects contain the same number of properties before comparing deep equality.
    if (_.keys(b).length !== length) return false;
    while (length--) {
        // Deep compare each member
        key = keys[length];
        if (!(_.has(b, key) && eq(a[key], b[key], aStack, bStack))) return false;
    }
}
// Remove the first object from the stack of traversed objects.
aStack.pop();
bStack.pop();
return true;
};

// Perform a deep comparison to check if two objects are equal.
_.isEqual = function(a, b) {
    return eq(a, b);
};

// Is a given array, string, or object empty?
// An "empty" object has no enumerable own-properties.
_.isEmpty = function(obj) {
    if (obj == null) return true;
    if (isArrayLike(obj) && (_.isArray(obj) || _.isString(obj) || _.isArguments(obj))) return obj.length === 0;
    return _.keys(obj).length === 0;
};

// Is a given value a DOM element?
_.isElement = function(obj) {
    return !!(obj && obj.nodeType === 1);
};

```

```

// Is a given value an array?
// Delegates to ECMA5's native Array.isArray
_.isArray = nativeIsArray || function(obj) {
  return toString.call(obj) === '[object Array]';
};

// Is a given variable an object?
_.isObject = function(obj) {
  var type = typeof obj;
  return type === 'function' || type === 'object' && !!obj;
};

// Add some isType methods: isArguments, isFunction, isString, isNumber, isDate, isRegExp, isError.
_.each(['Arguments', 'Function', 'String', 'Number', 'Date', 'RegExp', 'Error'], function(name) {
  _['is' + name] = function(obj) {
    return toString.call(obj) === '[object ' + name + ']';
  };
});

// Define a fallback version of the method in browsers (ahem, IE < 9), where
// there isn't any inspectable "Arguments" type.
if (!_isArguments(arguments)) {
  _.isArguments = function(obj) {
    return _has(obj, 'callee');
  };
}

// Optimize `isFunction` if appropriate. Work around some typeof bugs in old v8,
// IE 11 (#1621), and in Safari 8 (#1929).
if (typeof /!/ != 'function' && typeof Int8Array != 'object') {
  _.isFunction = function(obj) {
    return typeof obj == 'function' || false;
  };
}

// Is a given object a finite number?
_.isFinite = function(obj) {
  return isFinite(obj) && !isNaN(parseFloat(obj));
};

// Is the given value `NaN`? (NaN is the only number which does not equal itself).
_.isNaN = function(obj) {
  return _.isNumber(obj) && obj !== +obj;
};

// Is a given value a boolean?
_.isBoolean = function(obj) {
  return obj === true || obj === false || toString.call(obj) === '[object Boolean]';
}

```

```

};

// Is a given value equal to null?
_.isNull = function(obj) {
  return obj === null;
};

// Is a given variable undefined?
_.isUndefined = function(obj) {
  return obj === void 0;
};

// Shortcut function for checking if an object has a given property directly
// on itself (in other words, not on a prototype).
_.has = function(obj, key) {
  return obj != null && hasOwnProperty.call(obj, key);
};

// Utility Functions
// -----

// Run Underscore.js in *noConflict* mode, returning the `_` variable to its
// previous owner. Returns a reference to the Underscore object.
_.noConflict = function() {
  root._ = previousUnderscore;
  return this;
};

// Keep the identity function around for default iteratees.
_.identity = function(value) {
  return value;
};

// Predicate-generating functions. Often useful outside of Underscore.
_.constant = function(value) {
  return function() {
    return value;
  };
};

_.noop = function(){};

_.property = property;

// Generates a function for a given object that returns a given property.
_.propertyOf = function(obj) {
  return obj == null ? function(){} : function(key) {
    return obj[key];
  };
};

```

```

};
};

// Returns a predicate for checking whether an object has a given set of
// `key:value` pairs.
_.matcher = _.matches = function(attrs) {
  attrs = _.extendOwn({}, attrs);
  return function(obj) {
    return _.isMatch(obj, attrs);
  };
};

// Run a function n times.
_.times = function(n, iteratee, context) {
  var accum = Array(Math.max(0, n));
  iteratee = optimizeCb(iteratee, context, 1);
  for (var i = 0; i < n; i++) accum[i] = iteratee(i);
  return accum;
};

// Return a random integer between min and max (inclusive).
_.random = function(min, max) {
  if (max == null) {
    max = min;
    min = 0;
  }
  return min + Math.floor(Math.random() * (max - min + 1));
};

// A (possibly faster) way to get the current timestamp as an integer.
_.now = Date.now || function() {
  return new Date().getTime();
};

// List of HTML entities for escaping.
var escapeMap = {
  '&': '&amp;',
  '<': '&lt;',
  '>': '&gt;',
  '"': '&quot;',
  "'": '&#x27;',
  '`': '&#x60;'
};
var unescapeMap = _.invert(escapeMap);

// Functions for escaping and unescaping strings to/from HTML interpolation.
var createEscaper = function(map) {
  var escaper = function(match) {

```

```

    return map[match];
  };
  // Regexes for identifying a key that needs to be escaped
  var source = '(?:' + _.keys(map).join('|') + ')';
  var testRegexp = RegExp(source);
  var replaceRegexp = RegExp(source, 'g');
  return function(string) {
    string = string == null ? '' : string;
    return testRegexp.test(string) ? string.replace(replaceRegexp, escaper) : string;
  };
};
_.escape = createEscaper(escapeMap);
_.unescape = createEscaper(unescapeMap);

// If the value of the named `property` is a function then invoke it with the
// `object` as context; otherwise, return it.
_.result = function(object, property, fallback) {
  var value = object == null ? void 0 : object[property];
  if (value === void 0) {
    value = fallback;
  }
  return _.isFunction(value) ? value.call(object) : value;
};

// Generate a unique integer id (unique within the entire client session).
// Useful for temporary DOM ids.
var idCounter = 0;
_.uniqueId = function(prefix) {
  var id = ++idCounter + '';
  return prefix ? prefix + id : id;
};

// By default, Underscore uses ERB-style template delimiters, change the
// following template settings to use alternative delimiters.
_.templateSettings = {
  evaluate    : /<%(?![\s\S]+?)%>/g,
  interpolate : /<%=([ \s\S]+?)%>/g,
  escape     : /<%-([ \s\S]+?)%>/g
};

// When customizing `templateSettings`, if you don't want to define an
// interpolation, evaluation or escaping regex, we need one that is
// guaranteed not to match.
var noMatch = /(.)^/;

// Certain characters need to be escaped so that they can be put into a
// string literal.
var escapes = {

```

```

    "'": "'",
    '\\': '\\',
    '\r': 'r',
    '\n': 'n',
    '\u2028': '\u2028',
    '\u2029': '\u2029'
  };

var escaper = /\\"|\\r|\\n|\\u2028|\\u2029/g;

var escapeChar = function(match) {
  return '\\' + escapes[match];
};

// JavaScript micro-templating, similar to John Resig's implementation.
// Underscore templating handles arbitrary delimiters, preserves whitespace,
// and correctly escapes quotes within interpolated code.
// NB: `oldSettings` only exists for backwards compatibility.
_.template = function(text, settings, oldSettings) {
  if (!settings && oldSettings) settings = oldSettings;
  settings = _.defaults({}, settings, _.templateSettings);

  // Combine delimiters into one regular expression via alternation.
  var matcher = RegExp([
    (settings.escape || noMatch).source,
    (settings.interpolate || noMatch).source,
    (settings.evaluate || noMatch).source
  ].join('|') + '|$', 'g');

  // Compile the template source, escaping string literals appropriately.
  var index = 0;
  var source = "__p+=\"";
  text.replace(matcher, function(match, escape, interpolate, evaluate, offset) {
    source += text.slice(index, offset).replace(escaper, escapeChar);
    index = offset + match.length;

    if (escape) {
      source += "'+\\n((__t=(' + escape + "))===null?':_escape(__t))+\\n\"";
    } else if (interpolate) {
      source += "'+\\n((__t=(' + interpolate + "))===null?':__t)+\\n\"";
    } else if (evaluate) {
      source += "';\\n\" + evaluate + \"\\n__p+=\"";
    }
  });

  // Adobe VMs need the match returned to produce the correct offset.
  return match;
});
source += "';\\n\"";

```

```

// If a variable is not specified, place data values in local scope.
if (!settings.variable) source = 'with(obj||{}){\n' + source + '\n}';

source = "var __t,__p='',__j=Array.prototype.join," +
  "print=function(){__p+=__j.call(arguments,");;\n" +
  source + 'return __p;\n';

try {
  var render = new Function(settings.variable || 'obj', '_', source);
} catch (e) {
  e.source = source;
  throw e;
}

var template = function(data) {
  return render.call(this, data, _);
};

// Provide the compiled source as a convenience for precompilation.
var argument = settings.variable || 'obj';
template.source = 'function(' + argument + '){\n' + source + '\n}';

return template;
};

// Add a "chain" function. Start chaining a wrapped Underscore object.
_.chain = function(obj) {
  var instance = _(obj);
  instance._chain = true;
  return instance;
};

// OOP
// -----
// If Underscore is called as a function, it returns a wrapped object that
// can be used OO-style. This wrapper holds altered versions of all the
// underscore functions. Wrapped objects may be chained.

// Helper function to continue chaining intermediate results.
var result = function(instance, obj) {
  return instance._chain ? _(obj).chain() : obj;
};

// Add your own custom functions to the Underscore object.
_.mixin = function(obj) {
  _.each(_.functions(obj), function(name) {
    var func = _[name] = obj[name];
  });
};

```

```

    _._prototype[name] = function() {
        var args = [this._wrapped];
        push.apply(args, arguments);
        return result(this, func.apply(_, args));
    };
});
};

// Add all of the Underscore functions to the wrapper object.
_._mixin(_);

// Add all mutator Array functions to the wrapper.
_._each(['pop', 'push', 'reverse', 'shift', 'sort', 'splice', 'unshift'], function(name) {
    var method = ArrayProto[name];
    _._prototype[name] = function() {
        var obj = this._wrapped;
        method.apply(obj, arguments);
        if ((name === 'shift' || name === 'splice') && obj.length === 0) delete obj[0];
        return result(this, obj);
    };
});

// Add all accessor Array functions to the wrapper.
_._each(['concat', 'join', 'slice'], function(name) {
    var method = ArrayProto[name];
    _._prototype[name] = function() {
        return result(this, method.apply(this._wrapped, arguments));
    };
});

// Extracts the result from a wrapped and chained object.
_._prototype.value = function() {
    return this._wrapped;
};

// Provide unwrapping proxy for some methods used in engine operations
// such as arithmetic and JSON stringification.
_._prototype.valueOf = _._prototype.toJSON = _._prototype.value;

_._prototype.toString = function() {
    return "" + this._wrapped;
};

// AMD registration happens at the end for compatibility with AMD loaders
// that may not enforce next-turn semantics on modules. Even though general
// practice for AMD registration is to be anonymous, underscore registers
// as a named module because, like jQuery, it is a base library that is
// popular enough to be bundled in a third party lib, but not be part of

```



```
// an AMD load request. Those cases could generate an error when an
// anonymous define() is called outside of a loader request.
if (typeof define === 'function' && define.amd) {
  define('underscore', [], function() {
    return _;
  });
}
}.call(this));
```

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## 3.132 vinyl 0.5.1

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## 3.135 yavijava 6.0.03

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# 3.136 zone.js 0.8.18

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Upstream-Name: AccountsService

Upstream-Contact: Matthias Clasen <mclasen@redhat.com>

Source: <http://cgit.freedesktop.org/accountsservice/>

Files: \*

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Files: src/user.c

src/libaccountsservice/act-user.\*

src/libaccountsservice/act-user.manager.\*

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## 4.2 algorithm-diff-xs-perl 0.04-2build4

### 4.2.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Maintainer: Audrey Tang <cpan@audreyt.org>

Source: <http://search.cpan.org/dist/Algorithm-Diff-XS/>

Name: Algorithm-Diff-XS

Files: \*

Copyright: 2008, Audrey Tang <cpan@audreyt.org>

2003, Joe Schaefer <joe+cpan@sunstarsys.com>

License: Artistic or GPL-1+

Files: pport.h

Copyright: 2004-2009, Marcus Holland-Moritz <mhx-cpan@gmx.net>

2001, Paul Marquess <pmqs@cpan.org> (Version 2.x)

1999, Kenneth Albanowski <kjahds@kjahds.com> (Version 1.x)

License: Artistic or GPL-1+

Files: inc/Module/\*

Copyright: 2002-2009, Adam Kennedy <adamk@cpan.org>

2002-2009, Audrey Tang <autrijus@autrijus.org>

2002-2009, Brian Ingerson <ingy@cpan.org>

License: Artistic or GPL-1+

Files: debian/\*

Copyright: 2009, Jonathan Yu <jawnsy@cpan.org>

2011, Steve McIntyre <steve.mcintyre@linaro.org>

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Format: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=166>

Upstream-Name: AppArmor

Upstream-Contact: [apparmor@lists.ubuntu.com](mailto:apparmor@lists.ubuntu.com)

Source: <https://launchpad.net/apparmor>

Files: \*

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Files: profiles/apparmor/profiles/extras/usr.bin.passwd

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The upstream web site for aptitude is:

<http://algebraicthink.net/~dburrows/projects/aptitude>

Its Git repository is available at:

<git://git.debian.org/git/aptitude/aptitude.git>

License: GPL (/usr/share/common-licenses/GPL)

## 4.9 Argparse 1.2.1

### 4.9.1 Available under license :

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus  
was licensed under the Python license. Same license applies to all files in  
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History

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

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

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

A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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## 4.13 audit 1:2.4.5 :1ubuntu2

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@end group
@end smallexample
```

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```
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```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

```
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```

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

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

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

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```

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## 4.16 base-files 7.2ubuntu5.4

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 4.17 base-passwd 3.5.39

### 4.17.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/\*

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## 4.18 bash 4.3-7ubuntu1.5 :7ubuntu1.5

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```
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Beautiful Soup
Upstream-Contact: Leonard Richardson <leonardr@segfault.org>
Source: https://launchpad.net/beautifulsoup
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## 4.21 bind9 1:9.10.3.dfsg.P4 :8ubuntu1

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were

derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

## 4.22 bind9 1:9.9.5.dfsg-3 :3

### 4.22.1 Available under license :

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

<!--

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-->

<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
  <xsl:text>#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
  <xsl:if test="translate($rest, '#9;#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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```

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```
</xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
```

```

<xsl:text>Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
  <xsl:with-param name="years" select="year"/>
</xsl:call-template>
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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```

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## 4.23 binutils 2.24-5ubuntu3 :5ubuntu3



## 4.23.1 Available under license :

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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@appendixsubsec Preamble

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be combined with the library in order to run.

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

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@appendixsubsec How to Apply These Terms to Your New Libraries

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

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

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

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

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

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

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

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proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
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```
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
```

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

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

Finally, any free program is threatened constantly by software

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, [nickc@redhat.com](mailto:nickc@redhat.com) and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

Support for ELF format files has been worked on by Mark Eichin of

Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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```
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```

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally



accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec Preamble

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

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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

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

Finally, software patents pose a constant threat to the existence of

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

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

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

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

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

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

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

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

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

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

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

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

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

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

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

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The modified work must itself be a software library.

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

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

@item

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

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

@end enumerate



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

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

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

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

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

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

@item

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

If distribution of object code is made by offering access to copy

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work

during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

@item

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

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

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

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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@appendixsubsec How to Apply These Terms to Your New Libraries

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

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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```

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```

```
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Version 2.1, February 1999

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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If

you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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It was downloaded from <http://linux.dell.com/biosdevname/>

Upstream Author: Matt Domsch <Matt\_Domsch@dell.com>

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BlueZ - Bluetooth protocol stack for Linux

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
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<year>2018</year> <holder>Joe Blow, John Coe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)

subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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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 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.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

That's all there is to it!

## 4.32 bsdmainutils 9.0.5ubuntu1

### 4.32.1 Available under license :

This is a collection of programs from 4.4BSD-Lite that have not (yet) been re-written by FSF as GNU. It was constructed for inclusion in Debian Linux. As programs found here become available from GNU sources, they will be replaced.

This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

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

files they provided to fit calendar's requirements, so any errors should be attributed to me.

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

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## 4.33 bsduutils 1:2.20.1-5.1ubuntu20.7

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

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The current maintainer is LaMont Jones <lamont@debian.org>.

See also: [git://git.debian.org/~lamont/util-linux.git](https://git.debian.org/~lamont/util-linux.git)

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

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Upstream-Contact: Sage Weil <sage@newdream.net>

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Upstream-Name: chardet

Upstream-Contact: Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>

Source: <https://pypi.python.org/pypi/chardet>

Files: \*

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## 4.50 cloog 0.18.2 :1

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# 4.51 cluster-glue 1.0.11+hg2754 :1.1build1

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This package was first debianized by Paolo Molaro <lupus@debian.org> on Wed, 17 Nov 1999 17:30:23 +0100.

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lib/clplumbing/cl\_msg\_types.c, lib/clplumbing/cl\_poll.c,  
lib/clplumbing/coredumps.c, lib/clplumbing/cpulimits.c,  
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Version 2.1, February 1999

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## 4.53 command-not-found 0.3ubuntu12

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## 4.56 corekeeper 1.5

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: corekeeper

Upstream-Contact: Paul Wise <pabs@debian.org>

Source: <git://anonscm.debian.org/collab-maint/corekeeper.git>

Comment: original package by Ben Pfaff has been rewritten

Files: \*

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## 4.57 coreutils 8.25 :ubuntu2

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This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:

<ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz>

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

Changes:

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

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lib/fts.c

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m4/autobuild.m4

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dnl From Simon Josefsson

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exec/crypto.h:

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include/corosync/jhash.h:

```
/* Copyright (C) 1996 Bob Jenkins (bob_jenkins@burtleburtle.net)
 *
 * http://burtleburtle.net/bob/hash/
 *
 * These are the credits from Bob's sources:
 *
 * lookup2.c, by Bob Jenkins, December 1996, Public Domain.
 * hash(), hash2(), hash3, and mix() are externally useful functions.
 * Routines to test the hash are included if SELF_TEST is defined.
 * You can use this free for any purpose. It has no warranty.
 *
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 *
 * I've modified Bob's hash to be useful in the Linux kernel, and
 * any bugs present are surely my fault. -DaveM
 */
```

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## 4.60 cpio 2.11 :1ubuntu1

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## 4.63 cryptography 1.7.1

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## 4.67 curl 7.47.0 :1ubuntu2.1

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## 4.69 cyrus-sasl2 2.1.26.dfsg1 :14build1

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## 4.73 db5.3 5.3.28 :3ubuntu3

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## 4.84 distlib 0.1.8 :1ubuntu1

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

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.5.1	2.5	2007	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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Upstream-Contact: Daniel Baumann <[mail@daniel-baumann.ch](mailto:mail@daniel-baumann.ch)>

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## 4.92 e2fsprogs 1.42.13 :1ubuntu1

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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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
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+ Copyright (C) Paul `Rusty' Russell  2000

** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# 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) \$(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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Gadi Oxman, August 1995

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```

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Theodore Ts'o  
23-June-2007

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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## 4.96 ethtool 3.13 :1

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This is the Debian package of expat, the C library for parsing XML.

The source package was downloaded from <URL:<http://expat.sourceforge.net>>.

The original packager is Adam Di Carlo <[aph@debian.org](mailto:aph@debian.org)>. The current maintainer is Ardo van Rangelrooij <[ardo@debian.org](mailto:ardo@debian.org)>.

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## 4.98 fakeroot 1.20 :3ubuntu2

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## 4.99 fakeroot 1.20.2 :1

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Version 3, 29 June 2007

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src/is\_tar.c

src/print.c

src/softmagic.c

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github.com/armon/go-socks5  
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github.com/davecgh/go-spew  
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github.com/dustin/go-humanize

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[github.com/eapache/go-resiliency](https://github.com/eapache/go-resiliency)  
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github.com/eapache/go-xerial-snappy  
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github.com/eapache/queue  
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github.com/golang/snappy  
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[github.com/pierrec/lz4](https://github.com/pierrec/lz4)  
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github.com/pierre/gotestcover  
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github.com/pkg/errors  
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[github.com/pmezard/go-difflib](https://github.com/pmezard/go-difflib)  
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[github.com/rcrowley/go-metrics](https://github.com/rcrowley/go-metrics)  
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[github.com/samuel/go-thrift](https://github.com/samuel/go-thrift)  
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[github.com/satori/go.uuid](https://github.com/satori/go.uuid)  
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[github.com/shirou/gopsutil](https://github.com/shirou/gopsutil)  
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[github.com/StackExchange/wmi](https://github.com/StackExchange/wmi)  
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[github.com/tsg/gopacket](https://github.com/tsg/gopacket)  
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[golang.org/x/net](http://golang.org/x/net)  
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[golang.org/x/sys](http://golang.org/x/sys)  
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gopkg.in/mgo.v2/bson  
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BSON library for Go

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[golang.org/x/crypto](http://golang.org/x/crypto)  
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github.com/hashicorp/go-cleanhttp  
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mgo - MongoDB driver for Go

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## 4.102 findutils 4.6.0+git+20160126 :2

### 4.102.1 Available under license :

It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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The idea for `-print0` and `xargs -0` came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

\* GNU xargs

was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

\* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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## 4.103 friendly-recovery 0.2.25

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```

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```
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```

```
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## 4.104 futures 3.0.5

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## 4.105 gawk 1:4.0.1+dfsg-2.1ubuntu2

### :2.1ubuntu2

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

Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

root function must still compute square roots.)

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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

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

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

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

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

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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.)

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

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```
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Version 2, June 1991

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## 4.107 gcc-4.8 4.8.4 :2ubuntu1~14.04

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```
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<signature of Ty Coon>, 1 April 1989
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```
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Version 3, 29 June 2007

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That's all there is to it!

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the

garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.

# These lines make the symbols to get a @@GCC\_4.6.0.

```
%exclude {
  __addtf3
  __copysigntf3
  __divtc3
  __divtf3
  __eqtf2
  __extenddftf2
```

```
__extendsftf2
__extendxftf2
__fabstf2
__fixtfdi
__fixtfsi
__fixtfti
__fixunstfdi
__fixunstfsi
__fixunstfti
__floatditf
__floatsitf
__floattitf
__floatunditf
__floatunsitf
__floatuntitf
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctdf2
__trunctfsf2
__trunctxf2
__unordtf2
}
```

```
GCC_4.6.0 {
__addtf3
#ifdef __x86_64__
__copysigntf3
#endif
__divtc3
__divtf3
__eqtf2
__extenddf2
__extendsftf2
__extendxftf2
#ifdef __x86_64__
__fabstf2
#endif
__fixtfdi
__fixtfsi
#ifdef __x86_64__
```



```

__fixtfti
#endif
__fixunstfdi
__fixunstfsi
#ifdef __x86_64__
__fixunstfti
#endif
__floatditf
__floatsitf
#ifdef __x86_64__
__floattitf
#endif
__floatunditf
__floatunsitf
#ifdef __x86_64__
__floatuntitf
#endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctdf2
__trunctsf2
__trunctxf2
__unordtf2
}

```

```

GCC_4.8.0 {
__cpu_model
__cpu_indicator_init
}

```

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```

```
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```

```
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```

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```
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```

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```
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```

```
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```

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```

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```

```
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```

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end smallexample
```

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

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

That's all there is to it!

Jan 21, 2002

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

## 4.108 gcc-4.9-base 4.9.3-0ubuntu4

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## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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

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

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

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

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

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

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Random Hacker.

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

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@c man end

@end ignore

@node Copying

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@unnumbered GNU General Public License

@center Version 3, 29 June 2007

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@c man end

@ignore

@c Set file name and title for man page.

@setfilename gfdl

@settitle GNU Free Documentation License

@c man begin SEEALSO

gpl(7), fsf-funding(7).

@c man end

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@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset  
@c man begin DESCRIPTION  
@ifclear gfdlhtml  
@node GNU Free Documentation License  
@unnumbered GNU Free Documentation License  
@end ifclear

@cindex FDL, GNU Free Documentation License  
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@enumerate a

@item

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@item

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@item

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@end enumerate

@iftex

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@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, Fortran 95, Java, Objective-C, Objective-C++, and Treelang compilers, documentation, and support libraries. In addition, Debian provides the gdc compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
http://bitbucket.org/goshawk/gdc (for D)

The current gcc-4.9 source package is taken from the SVN gcc-4\_9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-4.9	libgnat-4.9	gnat-4.9-doc
C	gcc-4.9		gcc-4.9-doc
C++	g++-4.9	libstdc++6	libstdc++6-4.9-doc
D	gdc-4.9		
Fortran 95	gfortran-4.9	libgfortran3	gfortran-4.9-doc
Go	gccgo-4.9	libgo0	
Java	gcj-4.9	libgcj10	libgcj-doc
Objective C	gobjc-4.9	libobjc2	
Objective C++	gobjc++-4.9		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-4.9-dev	libstdc++6-4.9-dbg	libstdc++6-4.9-pic
D	libphobos-4.9-dev			
Java	libgcj10-src	libgcj10-dev	libgcj10-dbg	

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)  
gcc-4.9-base Base files common to all compilers  
gcc-4.9-soft-float Software floating point (ARM only)  
gcc-4.9-source The sources with patches

Ada:

libgnatvsn-dev, libgnatvsn4.9 GNAT version library  
libgnatprj-dev, libgnatprj4.9 GNAT Project Manager library

C:

cpp-4.9, cpp-4.9-doc GNU C Preprocessor  
libssp0-dev, libssp0 GCC stack smashing protection library  
libquadmath0 Math routines for the \_\_float128 type

fixincludes            Fix non-ANSI header files  
protoize                Create/remove ANSI prototypes from C code

Java:

gij                      The Java bytecode interpreter and VM  
libgcj-common            Common files for the Java run-time  
libgcj10-awt             The Abstract Windowing Toolkit  
libgcj10-jar             Java ARchive for the Java run-time

C, C++ and Fortran 95:

libgomp1-dev, libgomp1   GCC OpenMP (GOMP) support library  
libitm1-dev, libitm1    GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-4.9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Copyright (C) 2010 Free Software Foundation, Inc.  
Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>  
Written by Tobias Burnus <burnus@net-b.de>

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libquadmath/math:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit \_\_float128 are

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ldexpq.c:

- \* Conversion to long double by Ulrich Drepper,
- \* Cygnus Support, drepper@cygnus.com.

cosq\_kernel.c, expq.c, sincos\_table.c, sincosq.c, sincosq\_kernel.c, sinq\_kernel.c, truncq.c:

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isinfq.c:

- \* Written by J.T. Conklin <jtc@netbsd.org>.
- \* Change for long double by Jakub Jelinek <jj@ultra.linux.cz>

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Cephes Math Library Release 2.2: January, 1991

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Adapted for glibc November, 2001

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D:

gdc-4.9	GNU D Compiler
libphobos-4.9-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/\*

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The DMD Compiler implementation of the D programming language:

- d/dmd/\*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/\*

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The Phobos standard runtime library:

- d/phobos/\*

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Version 3, 29 June 2007

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mach_override	lib/interception/mach_override

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# 4.109 gcc-5 5.4.0 :6ubuntu1~16.04.2

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for

the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 2.1, February 1999



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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}.
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@end iftex

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@page

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```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end smallexample
```

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

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

That's all there is to it!

```
#!/bin/sh
```

```
# ***** BEGIN LICENSE BLOCK *****
# Version: MPL 1.1/GPL 2.0/LGPL 2.1
#
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# 1.1 (the "License"); you may not use this file except in compliance with
# the License. You may obtain a copy of the License at
```

```
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#
# ***** END LICENSE BLOCK *****
/* Symbol concatenation utilities.
```

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/\* Basic struct timeval utilities.

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/\* longlong.h -- definitions for mixed size 32/64 bit arithmetic.

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# 4.112 gcr 3.10.1-1 :1

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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```
Gnomovision version 69, Copyright (C) 19yy name of author
```

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

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
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school, if any, to sign a "copyright disclaimer" for the program, if  
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

## 4.114 genisoimage 9:1.1.11 :2ubuntu3

### 4.114.1 Available under license :

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
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```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

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

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

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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

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

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

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

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```

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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' (which makes passes at compilers) written by James Hacker.
```

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

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## 4.117 glib2.0 2.40.2 :0ubuntu1

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This package was debianized by Akira TAGOH <tagoh@debian.org> on  
Thu, 7 Mar 2002 01:05:25 +0900.

It was downloaded from <<http://ftp.gnome.org/pub/GNOME/sources/glib/>>.

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Description: Don't warn for \_BSD\_SOURCE || \_SVID\_SOURCE, drop post-vivid

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```
--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
     transitioned to use the new macro. */
#if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
    && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+ and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE 1
#endif
```

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GMP Debian Package

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This gmp package was built for Debian by

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from sources obtained at <http://gmplib.org/> .

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# 4.121 gmp 2:6.1.0+dfsg :2

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GMP Debian Package

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This gmp package was built for Debian by

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Philipp Matthias Hahn <[pmhahn@debian.org](mailto:pmhahn@debian.org)>



from sources obtained at <http://gmplib.org/> .

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## 4.123 gnupg 1.4.16-1ubuntu2.3

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

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

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

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

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

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

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

## @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

@end enumerate

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

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

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

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

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

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

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

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

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

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

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

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

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

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## 4.125 gnutls28 3.4.10 :4ubuntu1.1

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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from `ftp://ftp.gnutls.org/gcrypt/gnutls/`

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Redesign and implementation of the buffering layer.  
Initial DTLS implementation.

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Ilya Tumaykin \*itumaykin [at] gmail.com\*  
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo \*martin [at] martin.st\*  
DTLS-SRTP support.

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lib/extras/randomart.\*

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lib/accelerated/x86/elf/aes-ssse3-x86.s



lib/accelerated/x86/macosx/aes-ssse3-x86.s

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Upstream Authors: David Woodhouse <dwmw2@infradead.org>

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Comment: This code is not used on Debian/\*, since we have a working  
vasprintf() in glibc.

lib/extras/hex.\*

Author: Rusty Russell <rusty@rustcorp.com.au>

Comment: <http://ccodearchive.net/info/str/hex.html>

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```
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## version 0.1  
##  
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## 4.126 gobject-introspection 1.40.0

### :1ubuntu0.2

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Version 3, 29 June 2007

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The `gm' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

<http://ftp.cs.wisc.edu/pub/misc/gm.tar.Z> .

```
src/preproc/gm/gprint.h
src/preproc/gm/hdb.cpp
src/preproc/gm/hgraph.cpp
src/preproc/gm/hpoint.cpp
src/preproc/gm/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
```

src/devices/xditview/gxditview.man  
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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- . The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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- . The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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- . The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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- . The file ``tmac/hyphenex.det'` is identical to the file ``dehyphtex.tex'`, which can be found at

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- . The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czyphen.tex'` (for TeX), which can be found in the archive

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-- Tom St Denis

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@vskip 20pt plus 1fil  
@end macro
```

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@end macro
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@macro copyrightend{ }

@end macro

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@comment node-name, next, previous, up

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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-- Tom St Denis

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

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```

```
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@verbatim
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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

@end table

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test\_dh.c

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## 4.136 hostname 3.16ubuntu2

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hostname -- set the host name or show the host/domain name

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```
## *-makefile*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
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```
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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

```

## 4.139 idna 2.1



## 4.139.1 Available under license :

BSD-like

# 4.140 ifupdown 0.8.10ubuntu1.1

## 4.140.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ifupdown

Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

Files: \*

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## 4.142 incremental 16.10.1

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## 4.143 init-system-helpers 1.29ubuntu3

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Version 3, 29 June 2007

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## 4.144 inserv 1.14.0-2.1ubuntu2 :2.1ubuntu2

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## 4.148 iptables 1.4.21 :1ubuntu1

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```

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Files-Excluded:

aclocal.m4

bind

compile

config.\*

configure

depcomp

install-sh

\*/Makefile.in

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# 4.152 isc-dhcp 4.2.4 :7ubuntu12

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the  
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were

derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
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## 4.153 isl 0.12.2-1 :1

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Format: <http://dep.debian.net/deps/dep5>

Upstream-Name: isl

Source: <ftp://ftp.linux.student.kuleuven.be/pub/people/skimo/isl/>

Files: \*

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## 4.154 isl 0.16.1 :1

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Source: <ftp://ftp.linux.student.kuleuven.be/pub/people/skimo/isl/>

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# 4.156 keyutils 1.5.9 :8ubuntu1

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Upstream-Name: keyutils

Upstream-Contact: David Howells <dhowells@redhat.com>

Source: <http://people.redhat.com/~dhowells/keyutils/>

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## 4.158 kmod 22 :1ubuntu4

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It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:  
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```

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## 4.159 krb5 1.13.2+dfsg :5

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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/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
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- 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  
slave/kpropd\_rpc.c  
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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.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/iprofd\_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  
slave/kpropd\_rpc.c  
slave/kproplog.c

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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/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/iprofd\_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  
slave/kpropd\_rpc.c  
slave/kproplog.c

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
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lib/gssapi/mechglue/g\_dup\_name.c  
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lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
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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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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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  
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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```

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```
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under certain conditions; type `show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

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## 4.163 language-pack-gnome-en 1:14.04 :20150219

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## 4.165 language-selector 0.129.3

### 4.165.1 Available under license :

```
Upstream-Name: language-selector
Upstream-Maintainer: Arne Goetje <arne@ubuntu.com>
Upstream-Source: https://code.launchpad.net/~ubuntu-core-dev/language-selector/ubuntu
```

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## 4.167 libalgorithm-diff-perl 1.19.03 :1

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Algorithm-Diff

Upstream-Contact: This version released by Tye McQueen (<http://perlmonks.org/?node=tye>).

Source: <http://search.cpan.org/~tyemq/Algorithm-Diff/>

Files: \*

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## 4.168 libalgorithm-diff-perl 1.19.02 :3

## 4.169 libalgorithm-diff-xs-perl 0.04 :2build3

## 4.170 libalgorithm-merge-perl 0.08-2

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Maintainer: James G. Smith <[jsmith@cpan.org](mailto:jsmith@cpan.org)>

Source: <http://search.cpan.org/dist/Algorithm-Merge/>

Name: Algorithm-Merge

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Maintainer: James G. Smith <[jsmith@cpan.org](mailto:jsmith@cpan.org)>

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Name: Algorithm-Merge

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Files:

include/bsd/err.h

include/bsd/stdlib.h

include/bsd/unistd.h

src/bsd\_getopt.c

src/err.c

src/fgetln.c

src/progname.c

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include/bsd/netinet/ip\_icmp.h

include/bsd/sys/bitstring.h

include/bsd/sys/queue.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3  
man/explicit\_bzero.3  
man/fgetln.3  
man/fgetwln.3  
man/funopen.3bsd  
man/getbsize.3  
man/heapsort.3  
man/nlist.3  
man/queue.3bsd  
man/radixsort.3  
man/reallocarray.3  
man/reallocf.3  
man/setmode.3  
man/strmode.3  
man/strnstr.3  
man/unvis.3  
man/vis.3  
man/wcsncpy.3  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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man/fmtcheck.3

man/humanize\_number.3

man/stringlist.3



src/fmtcheck.c

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Files:

include/bsd/sys/endian.h

man/expand\_number.3

man/closefrom.3

man/flopen.3

man/getpeereid.3

man/pidfile.3

src/expand\_number.c

src/hash/sha512.h

src/hash/sha512c.c

src/pidfile.c

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man/readpassphrase.3  
man/strncpy.3  
man/strtonum.3  
src/arc4random.c  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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src/bsd\_getopt.c  
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src/fgetln.c  
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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3  
man/explicit\_bzero.3  
man/fgetln.3  
man/fgetwln.3  
man/funopen.3bsd  
man/getbsize.3  
man/heapsort.3  
man/nlist.3  
man/queue.3bsd  
man/radixsort.3  
man/reallocarray.3  
man/reallocf.3  
man/setmode.3  
man/strmode.3  
man/strnstr.3  
man/unvis.3  
man/vis.3  
man/wcsncpy.3  
src/getbsize.c  
src/heapsort.c

src/merge.c  
src/nlist.c  
src/radixsort.c  
src/setmode.c  
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man/fmtcheck.3

man/humanize\_number.3

man/stringlist.3

src/fmtcheck.c

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man/pidfile.3  
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man/strtonum.3

src/arc4random.c

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c

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## 4.173 libcap-ng 0.7.3 :1ubuntu2

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Version 2.1, February 1999

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Upstream-Contact: Andrew G. Morgan <morgan@kernel.org>
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```
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```
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Upstream-Source: <http://search.cpan.org/dist/Class-Accessor/>

Upstream-Name: Class-Accessor

Files: \*

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## 4.185 libfile-fcntllock-perl 0.14 :2build1



## 4.186 libfile-fcntllock-perl 0.22 :3

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Upstream-Name: File-FcntlLock

Upstream-Contact: Jens Thoms Toerring <jt@toerring.de>

Source: <https://metacpan.org/release/File-FcntlLock>

Files: \*

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LIBGCRYPT The Written Word 2005-04-15  
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09  
Assigns Past and Future Changes  
bradh@frogmouth.net  
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Designed and implemented GnuPG.

GNUPG Matthew Skala 1998-08-10  
Disclaims changes.  
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Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11  
Disclaims changes by Matthew Skala.

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Code marked with ChangeLog entries of g10 Code employees.

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

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=====

LIBGCRYPT Werner Koch 2001-06-07

Assigns past and future changes.

Assignment for future changes terminated on 2012-12-04.

wk@gnupg.org

Designed and implemented Libgrypt.

GNUPG Matthew Skala 1998-08-10

Disclaims changes.

mskala@ansuz.sooke.bc.ca

Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11

Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17

Assigns changes.

mroth@nessie.de

Wrote cipher/des.c.

Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18

Disclaims changes.

nh@df.lth.se

Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25

Assigns past and future changes. (g10/compress.c, g10/encr-data.c,  
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)

rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07

Assignment for future changes terminated on 2012-12-04.

Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31

Assigns past and future changes.

twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25

Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)

simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17

Assigns past and future changes.

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

nmav@gnutls.org

Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns past and future changes. (new: src/libgcript.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

Assigns Past and Future Changes

bradh@frogmouth.net

(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.

added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07

Assigns Past and Future Changes

perky@freebsd.org

(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

Assigns Past and Future Changes

werner.dittmann@t-online.de

(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw

Assigns past and future changes.

dshaw@jabberwocky.com

(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

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openpgp@brainhub.org  
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Mller 2012-02-15  
Assigns Past and Future Changes  
ulm@gentoo.org  
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26  
Assigns Past and Future Changes  
phcoder@gmail.com  
(cipher/serpent.c)

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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Source:

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## 4.193 libio-string-perl 1.08 :3

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Version 2, June 1991

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 4.198 libparse-debianchangelog-perl 1.2.0 :1ubuntu1

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It was created by Frank Lichtenheld <djpig@debian.org> using dh-make-perl.

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## 4.200 libpipeline 1.3.0 :1

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## 4.202 librdmacm 1.0.21 :1

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Initial Debianization:

This package was debianized by Roland Dreier <rolandd@cisco.com> on  
Mon, 21 Jan 2008 13:18:49 -0800

Source:

It was downloaded from the OpenFabrics web site at  
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Author:



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## 4.203 libseccomp 2.2.3

### :2ubuntu1~ubuntu14.04.1

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```
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Upstream-Name: libseccomp
Source: https://sourceforge.net/projects/libseccomp/
```

```
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This package was debianized by Colin Walters <walters@debian.org> on  
Thu, 3 Jul 2003 17:10:57 -0400.

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

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

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

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



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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.

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

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

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## 4.207 libsigc++-2.0-0c2a 2.2.10 :0ubuntu2

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

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!



# 4.208 libsigsegv 2.10-2 :2

## 4.208.1 Available under license :

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Version 2, June 1991

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```
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```

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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This package was debianized by Will Newton <will@debian.org> on Sat, 14 Sep 2002 01:02:45 +0100.

It was downloaded from <http://sourceforge.net/projects/libsigsegv>

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## 4.209 libstatgrab 0.91 :1

### 4.209.1 Available under license :

This package was originally debianized by Tim Bishop <tim@bishnet.net> on Wed, 22 Oct 2003 19:16:49 +0100.

Lot of things were rewritten and updated by Bartosz Fenski <fenio@debian.org>, which is now official maintainer.

It was downloaded from <http://www.i-scream.org/libstatgrab/>

Upstream Author: dev@i-scream.org

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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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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Version 3, 29 June 2007

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## 4.212 libtimedate-perl 2.3000-1 :1

### 4.212.1 Available under license :

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Upstream-Name: TimeDate

Upstream-Contact: Graham Barr <[gbarr@pobox.com](mailto:gbarr@pobox.com)>

Source: <https://metacpan.org/release/TimeDate/>

Files: \*

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## 4.215 libusb 0.1.12 :20



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## 4.222 libxdmcp 1:1.1.1-1 :1

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### :3ubuntu4.3

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Upstream-Name: LibYAML

Upstream-Contact: Kirill Simonov <xi@resolvent.net>

Source: <http://pyyaml.org/wiki/LibYAML>

Files: \*

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single nxt200x frontend driver.

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (`skb->atm.iovcnt != 0`) for Rx skb's passed to `vcc->push`.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave `<small_buffer_data>` bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) `skb->destructor / skb->atm.recycle_buffer`

```

*      combined, allow nicstar_free_rx_skb to be called to
*      recycle large data buffers
*      2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

```

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## 4.233 linux-atm 1:2.5.1-1.5

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```
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# 4.234 linux-firmware 1.127.20

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The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000\_firmwares\_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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\* FILE: sha2.c

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\*

\* \$Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg \$

\*/

File: LLM\_sp\_sha2.c

/\*

\* FILE: sha2.h

\* AUTHOR: Aaron D. Gifford <me@aarongifford.com>

\*

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\* \$Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg \$

\*/

File: LLM\_sp\_sha2.h

2.

/\* utility to create the register check tables

\* this includes inlined list.h safe for userspace.

\*

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\*

\* Authors:

\* Jerome Glisse

\* Dave Airlie

\*/

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\*/

File: comm\_lib.h

3.

/\* crypto/aes/aes.h -\*- mode:C; c-file-style: "eay" -\*- \*/

```
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* =====  
*
```

\*/

File Name list: aes.h, aes\_locl.h

4.

/\* crypto/aes/aes\_core.c -\*- mode:C; c-file-style: "eay" -\*- \*/

/\*\*

\* rijndael-alg-fst.c

\*

\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

\* @author Paulo Barreto <paulo.barreto@terra.com.br>

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\*/

File: aes\_core.c

5.

/\*=====

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM\_SEC.03.03.08.xx/aes.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

-----

11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

#### A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)  
word (an unsigned 32-bit type)  
aes\_ret: (a signed 16 bit type for function return values)  
    aes\_good (value != 0, a good return)  
    aes\_bad (value == 0, an error return)  
enum aes\_key: (encryption direction)  
    enc (set key for encryption)  
    dec (set key for decryption)  
    both (set key for both)  
class or struct aes (structure for context)

C subroutine calls:

aes\_ret set\_blk(const word block\_length, aes \*cx) (variable block size)  
aes\_ret set\_key(const byte key[], const word key\_length,  
    const enum aes\_key direction, aes \*cx)  
aes\_ret encrypt(const byte input\_blk[], byte output\_blk[], const aes \*cx)  
aes\_ret decrypt(const byte input\_blk[], byte output\_blk[], const aes \*cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

```
aes_ret set_blk(const word block_length) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const
```

The block length inputs to `set_block` and `set_key` are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but `set_blk` has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

## B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the *n*'th byte contains bits  $8n$  to  $8n+7$  of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining `INTERNAL_BYTE_ORDER` whereas the order for all inputs and outputs is specified by defining `EXTERNAL_BYTE_ORDER`, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

```
#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN
```

## C. COMPILATION

To compile AES (Rijndael) for use in C code

- a. Exclude the AES\_DLL define in aes.h
- b. Exclude the AES\_IN\_CPP define in aes.h

To compile AES (Rijndael) for use in in C++ code

- a. Exclude the AES\_DLL define in aes.h
- b. Include the AES\_IN\_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library

- a. Include the AES\_DLL define in aes.h
- b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK\_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES\_IN\_CPP to use the code from C++ rather than C
3. set AES\_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL\_BYTE\_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL\_BYTE\_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK\_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

```
#define BLOCK_SIZE 16
```

Define AES\_IN\_CPP if you intend to use the AES C++ class rather than the C code directly.

```
#define AES_IN_CPP
```

Define AES\_DLL if you wish to compile the code to produce a Windows DLL

```
#define AES_DLL
```

```
*/
```

```
File: aes.h
```

```
/*=====
```

EDIT HISTORY FOR FILE



\$Header: //depot/asic/msmshared/sec/sec/MSM\_SEC.03.03.08.xx/aes\_tab.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

-----  
11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

=====\*/

/\*lint -e146 -e303 \*/

/\* 146: Assuming a binary constant \*/

/\* 303: String too long (try +macros) \*/

/\*

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\*/

File: aes\_tab.h

=====

6.

=====

#FILE:Conftest.py

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#

#

# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#

#

# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#

# context.Display(msg) Function called to print messages that are normally
#         displayed for the user. Newlines are explicitly used.
#         The text should also be written to the logfile!
#

# context.Log(msg)   Function called to write to a log file.
#

# context.BuildProg(text, ext)
#         Function called to build a program, using "ext" for the
#         file extension. Must return an empty string for
#         success, an error message for failure.
#         For reliable test results building should be done just
#         like an actual program would be build, using the same
#         command and arguments (including configure results so
#         far).
#

# context.CompileProg(text, ext)
#         Function called to compile a program, using "ext" for
#         the file extension. Must return an empty string for
#         success, an error message for failure.
#         For reliable test results compiling should be done just
#         like an actual source file would be compiled, using the
#         same command and arguments (including configure results
#         so far).
#

# context.AppendLIBS(lib_name_list)
#         Append "lib_name_list" to the value of LIBS.
#         "lib_namelist" is a list of strings.
#         Return the value of LIBS before changing it (any type
#         can be used, it is passed to SetLIBS() later.)
#

# context.PrependLIBS(lib_name_list)
#         Prepend "lib_name_list" to the value of LIBS.
#         "lib_namelist" is a list of strings.
#         Return the value of LIBS before changing it (any type

```

```

#           can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
#           Set LIBS to "value". The type of "value" is what
#           AppendLIBS() returned.
#           Return the value of LIBS before changing it (any type
#           can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
#           Name of file to append configure results to, usually
#           "confdefs.h".
#           The file must not exist or be empty when starting.
#           Empty or None to skip this (some tests will not work!).
#
# context.config_h   (may be missing). If present, must be a string, which
#           will be filled with the contents of a config_h file.
#
# context vardict    Dictionary holding variables used for the tests and
#           stores results from the tests, used for the build
#           commands.
#           Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict   Dictionary holding results from the tests that are to
#           be used inside a program.
#           Names often start with "HAVE_". These are zero
#           (feature not present) or one (feature present). Other
#           variables may have any value, e.g., "PERLVERSION" can
#

```

=====  
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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

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WIS GO7007SB Public Linux Driver  
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\*\*\* Please see the file RELEASE-NOTES for important last-minute updates \*\*\*

## 0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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## 1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG\_SND\_MIXER\_OSS - OSS Mixer API  
CONFIG\_SND\_PCM\_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <<http://linux-hotplug.sourceforge.net/>>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

## 2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

## 3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force\_band" parameter to the wis-sony-tuner module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force\_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force\_mpx\_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force\_mpx\_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force\_band" or "force\_mpx\_mode" parameters to the

wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

#### 4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

#### 5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed

format API, within the following criteria:

- \* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- \* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.
- \* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- \* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- \* Video parameters such as format and input port may not be changed while the encoder is active.
- \* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- \* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

`GO7007IOC_S_COMP_PARAMS`, `GO7007IOC_G_COMP_PARAMS`

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the `GO7007IOC_G_COMP_PARAMS` ioctl with a pointer to a struct `go7007_comp_params`. If the driver is not set to MPEG format, the `EINVAL` error code will be returned.

To change the current parameters, initialize all fields of a struct `go7007_comp_params` and call the `GO7007_IOC_S_COMP_PARAMS` ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the `EINVAL` error code will be returned. When I/O is in progress, the `EBUSY` error code will be returned.

Fields in struct `go7007_comp_params`:

\_\_u32                    The maximum number of frames in each  
gop\_size                Group Of Pictures; i.e. the maximum  
                          number of frames minus one between  
                          each key frame.

\_\_u32                    The maximum number of sequential  
max\_b\_frames            bidirectionally-predicted frames.  
                          (B-frames are not yet supported.)

enum go7007\_aspect\_ratio    The aspect ratio to be encoded in the  
aspect\_ratio                meta-data of the compressed format.

Choices are:

GO7007\_ASPECT\_RATIO\_1\_1  
GO7007\_ASPECT\_RATIO\_4\_3\_NTSC  
GO7007\_ASPECT\_RATIO\_4\_3\_PAL  
GO7007\_ASPECT\_RATIO\_16\_9\_NTSC  
GO7007\_ASPECT\_RATIO\_16\_9\_PAL

\_\_u32                    Bit-wise OR of control flags (below)  
flags

Flags in struct go7007\_comp\_params:

GO7007\_COMP\_CLOSED\_GOP    Only produce self-contained GOPs, used  
                          to produce streams appropriate for  
                          random seeking.

GO7007\_COMP\_OMIT\_SEQ\_HEADER    Omit the stream sequence header.

GO7007IOC\_S\_MPEG\_PARAMS, GO7007IOC\_G\_MPEG\_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2\_PIX\_FMT\_MPEG.

To query the current parameters, call the GO7007IOC\_G\_MPEG\_PARAMS ioctl with a pointer to a struct go7007\_mpeg\_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007\_mpeg\_params and call the GO7007\_IOC\_S\_MPEG\_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in

progress, the EBUSY error code will be returned.

Fields in struct `go7007_mpeg_params`:

```
enum go7007_mpeg_video_standard
mpeg_video_standard    The MPEG video standard in which to
                        compress the video.
```

Choices are:

```
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4
```

```
__u32
flags                  Bit-wise OR of control flags (below)
```

```
__u32
pali                   The profile and level indication to be
                        stored in the sequence header. This
                        is only used as an indicator to the
                        decoder, and does not affect the MPEG
                        features used in the video stream.
                        Not valid for MPEG1.
```

Choices for MPEG2 are:

```
GO7007_MPEG2_PROFILE_MAIN_MAIN
```

Choices for MPEG4 are:

```
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5
```

Flags in struct `go7007_mpeg_params`:

```
GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and
                             bitrate control settings to comply
                             with DVD MPEG2 stream requirements.
                             This overrides most compression and
```

bitrate settings!

GO7007\_MPEG\_OMIT\_GOP\_HEADER Omit the GOP header.

GO7007\_MPEG\_REPEAT\_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC\_S\_BITRATE, GO7007IOC\_G\_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC\_S\_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC\_G\_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2\_PIX\_FMT\_MJPEG. The VIDIOC\_S\_JPEGCOMP ioctl is not supported.

---

#### Installing the WIS PCI Voyager Driver

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The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>  
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>  
<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>  
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff  
patches/2.6.11/tda8275-newaddr.diff  
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG\_VIDEO\_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.



After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

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RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER  
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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE\_UDEV=n". To force the use of udev, run "make install USE\_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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The firmware files "dvb-usb-it9135-01.fw" and "dvb-usb-it9135-02.fw" are for ITEtech it9135 Ax and Bx chip versions.

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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

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 \*  
 \*  
 \*  
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 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
 \*/

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Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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=====  
RubyGem: cabin Version: 0.9.0

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## 4.239 logstash-output-syslog 3.0.3

## 4.240 Isb 9.20160110ubuntu0.2

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Upstream-Name: LSB implementation package

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Upstream-Name: Isof

Upstream-Contact: <https://lists.rcac.purdue.edu/listinfo/Isof-1>

Source: <ftp://Isof.itap.purdue.edu/pub/tools/unix/Isof/>

Comment: The following changes were made to the upstream tarball:

- 1.) The directory dialects/uw was removed for being non-DFSG and not needed in Debian.
- 2.) The main source was a tarball within a tarball. Only the innermost tarball has been retained.
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of GNU Make. GNU Make was written by Richard Stallman and Roland McGrath.



This package was put together by Ian Murdock <imurdock@debian.org>, from sources obtained from: <ftp://ftp.gnu.org/gnu/make/>

Changes:

- \* added Debian GNU/Linux package maintenance system files
- \* removed documentation that fails to meet the Debian free software guidelines.

The package has since changed maintainers, the current maintainer being Manoj Srivastava <srivasta@pilgrim.umass.edu>.

The Debian specific changes are 1997-2009, Manoj Srivastava <srivasta@debian.org>, and distributed under the terms of the GNU General Public License, version 2.

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The documentation for this package is available under the GNU Free Documentation License, and has been removed.

Manoj Srivastava <srivasta@debian.org>

arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

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Version 2, June 1991

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

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

```
Gnomovision version 69, Copyright (C) 19yy 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
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The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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# 4.248 make-dfsg 4.1 :6

## 4.248.1 Available under license :

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Version 2, June 1991

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

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

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

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

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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## 4.249 makedev 2.3.1-93ubuntu1

### 4.249.1 Available under license :

This package is maintained for Debian by Bdale Garbee, <[bdale@gag.com](mailto:bdale@gag.com)>.

It was downloaded from <ftp.redhat.com>, as a source .rpm from the 5.1 release.

Copyright:

No explicit copyright is asserted. Nick Holloway is the earliest author recorded in the sourcecode. I queried him for an explicit statement regarding the license status of this work, and this is his reply:

Date: Tue, 21 Jul 1998 19:57:10 +0100  
From: Nick Holloway <[Nick.Holloway@alfie.demon.co.uk](mailto:Nick.Holloway@alfie.demon.co.uk)>  
Message-Id: <199807211857.TAA19068@alfie.demon.co.uk>  
To: Bdale Garbee <[bdale@gag.com](mailto:bdale@gag.com)>  
Subject: Re: makedev license?

> I maintain the makedev package for Debian GNU/Linux. I am about to move  
> from the ill-fated makedev-1.6 to the makedev-2.3.1 derived from your work  
> by the folks at Redhat. I don't see any evidence of a copyright assertion  
> or explicit license statement in the source. Your name appears to be the  
> earliest attached to the current sourcecode. Am I correct in assuming the  
> GPL? We try to be meticulous about having our base system be compliant  
> with our Debian Free Software Guidelines, so I'd like an explicit statement.

It was never explicitly released as GPL, as that would have required including the file COPYING which would have been much larger than the actual MAKEDEV script (I was also too lazy to find out what incantations needed to be made). However, it is intended to be used as anyone sees fit, and the statement under "Copying Policy" is "Freely Redistributable" (see MAKEDEV.lsm from any of the releases I made).

The more recent modifications were done by Michael K. Johnson at Redhat. I think the understanding was that he would be taking over the maintenance of MAKEDEV (our discussion took place last September).

The only previous history was (according to an old posting to

comp.os.linux) that I started with Jim Winstead's script.

So, as far as I am concerned, it is consistent with the Debian FSG.

--

`O O' | Home: Nick.Holloway@alfie.demon.co.uk <http://www.alfie.demon.co.uk/>  
// ^ \\ | Work: Nick.Holloway@parallax.co.uk

A complete copy of the GPL is provided on Debian systems in the file  
/usr/share/common-licenses/GPL.

## 4.250 man-db 2.6.7.1-1ubuntu1

### 4.250.1 Available under license :

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2, June 1991

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Upstream-Contact: Michael Kerrisk <mtk.manpages@gmail.com>, linux-man@vger.kernel.org

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man3/CIRCLEQ\_REMOVE.3 man3/LIST\_EMPTY.3 man3/LIST\_ENTRY.3  
man3/LIST\_FIRST.3 man3/LIST\_FOREACH.3 man3/LIST\_HEAD.3  
man3/LIST\_HEAD\_INITIALIZER.3 man3/LIST\_INIT.3

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 man3/STAILQ\_HEAD\_INITIALIZER.3 man3/STAILQ\_INIT.3  
 man3/STAILQ\_INSERT\_AFTER.3 man3/STAILQ\_INSERT\_HEAD.3  
 man3/STAILQ\_INSERT\_TAIL.3 man3/STAILQ\_NEXT.3 man3/STAILQ\_REMOVE.3  
 man3/STAILQ\_REMOVE\_HEAD.3 man3/STAILQ\_CONCAT.3 man3/STAILQ\_EMPTY.3  
 man3/STAILQ\_ENTRY.3 man3/STAILQ\_FIRST.3 man3/STAILQ\_FOREACH.3  
 man3/STAILQ\_FOREACH\_REVERSE.3 man3/STAILQ\_HEAD.3  
 man3/STAILQ\_HEAD\_INITIALIZER.3 man3/STAILQ\_INIT.3  
 man3/STAILQ\_INSERT\_AFTER.3 man3/STAILQ\_INSERT\_BEFORE.3  
 man3/STAILQ\_INSERT\_HEAD.3 man3/STAILQ\_INSERT\_TAIL.3 man3/STAILQ\_LAST.3  
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 man3/clnt\_sperrno.3 man3/clnt\_sperror.3 man3/clntraw\_create.3  
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 man3/errx.3 man3/exec.3 man3/execl.3 man3/execlp.3 man3/execlp.3  
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man2/adjtimex.2 man2/afs\_syscall.2 man2/bdflush.2 man2/break.2  
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man2/clone2.2 man2/create\_module.2 man2/epoll\_create.2  
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man2/fstatvfs.2 man2/fsync.2 man2/futimesat.2 man2/get\_mempolicy.2



man2/get\_robust\_list.2 man2/getcontext.2 man2/getcpu.2 man2/getcwd.2  
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## 4.253 mawk 1.3.3-17ubuntu2

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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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```

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```
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```

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

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## 4.254 mime-support 3.59ubuntu1

### 4.254.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>  
Source: <git://anonscm.debian.org/collab-maint/mime-support.git>

Files: \*

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This package was written by Brian White <bcwhite@pobox.com> and others.  
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.

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Files: mailcap.man

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Comment: Author: Nathaniel S. Borenstein

## 4.255 mlocate 0.26 :1ubuntu1

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```

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```
Gnomovision version 69, Copyright (C) year name of author
```

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

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
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## 4.256 monit 5.25.1

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## 4.261 mpfr4 3.1.2-1

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It is currently maintained by Marco d'Itri [md@linux.it](mailto:md@linux.it).

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## DES

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## MD2

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## MD4

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## MD5

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## SHA224, SHA256, SHA384, and SHA512

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Files: \*

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Date: Fri, 6 Jun 2003 10:18:52 -0700  
From: Juan Gomez <juang@us.ibm.com>  
To: Stephen Frost <sfrost@debian.org>  
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999  
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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license. Please forward this email to Kurt so he does the appropriate  
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MA

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)  
From: Mark Adamson <adamson@andrew.cmu.edu>  
To: Stephen Frost <sfrost@debian.org>  
Subject: Re: Mark Adamson license in OpenLDAP source

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\* To: Stephen Frost <sfrost@snowman.net>  
\* Subject: Re: OpenLDAP Licenseing issues  
\* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>  
\* Date: Wed, 28 May 2003 10:55:44 -0700  
\* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org  
\* In-reply-to: <20030528162613.GB8524@ns.snowman.net>  
\* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>  
\* Old-return-path: <Kurt@OpenLDAP.org>

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- TSS has been removed
- MD5 is now external, in the OpenSSL library
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\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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Upstream-Name: p11-kit

Source: <http://p11-glue.freedesktop.org/p11-kit.html>

Files: \*

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trust/oid.c trust/oid.h  
trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h  
common/pkcs11i.h  
common/test-constants.c common/test-hash.c  
p11-kit/pkcs11.h p11-kit/test-managed.c p11-kit/test-modules.c  
trust/builder.c  
trust/builder.h trust/digest.h trust/module.c trust/module.h trust/pem.c  
trust/pem.h trust/oid.c trust/oid.h trust/parser.h  
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common/tool.h p11-kit/deprecated.h  
p11-kit/docs.h p11-kit/log.h p11-kit/modules.h p11-kit/proxy.h  
p11-kit/test-log.c trust/anchor.c trust/anchor.h  
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Upstream-Name: pacemaker

Source: <http://github.com/clusterlabs/pacemaker>

Files: \*

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## 4.289 pacemaker/extras/clustermon.sh 1.1.14 :2ubuntu1.1

### 4.289.1 Available under license :

```
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#
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#
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## 4.290 paramiko 2.1.1

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## 4.291 parted 2.3 :19ubuntu1

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The current maintainer for this package is Laszlo Boszormenyi (GCS) <gcs@debian.org>.

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The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp. 'ftp://alpha.gnu.org/gnu/diffutils/'.

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```
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```

```
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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
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```
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```

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## 4.293 patch 2.7.1-4ubuntu2.3

### 4.293.1 Available under license :

This is Debian's prepackaged version of patch, Larry Wall's program that allows you to apply diffs to a file automatically.

The current maintainer for this package is Laszlo Boszormenyi (GCS) <[gcs@debian.org](mailto:gcs@debian.org)>.

Previous maintainers were Bill Mitchell <[mitchell@mdd.comm.mot.com](mailto:mitchell@mdd.comm.mot.com)>, Darren Stalder <[torin@daft.com](mailto:torin@daft.com)>, Adrian Bunk <[bunk@fs.tum.de](mailto:bunk@fs.tum.de)>, Michael Fedrowitz <[michaelf@debian.org](mailto:michaelf@debian.org)> and Christoph Berg <[myon@debian.org](mailto:myon@debian.org)>.

The upstream source is available at '<ftp://ftp.gnu.org/gnu/patch/>', resp. '<ftp://alpha.gnu.org/gnu/diffutils/>'.

Upstream Maintainer: Paul Eggert <[eggert@twinsun.com](mailto:eggert@twinsun.com)>

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Version 3, 29 June 2007

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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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```

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## 4.294 pciutils 1:3.3.1 :1.1ubuntu1

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The package was downloaded from  
<ftp://ftp.kernel.org/pub/software/utils/pciutils/>

Upstream Author: Martin Mares <[mj@ucw.cz](mailto:mj@ucw.cz)>

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```

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```
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```

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

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## 4.295 pcre3 2:8.38 :3.1

### 4.295.1 Available under license :

This is Debian GNU/Linux's prepackaged version of the PCRE regular  
expression library and associated `pgrep` utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the

original sources obtained from <ftp.csx.cam.ac.uk:/pub/software/programming/pcre>.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

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-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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# 4.296 perl 5.22.1 :9

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```

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```
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at assemblers) written by James Hacker.
```

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

That's all there is to it!

-----

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

-----  
/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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

\*/

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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta\_1\_2.pod  
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cpan/Term-ANSIColor/t/lib/Test/RRA.pm

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cpan/Tie-RefHash/\*

cpan/Win32API-File/\*

dist/bignum/\*

dist/ExtUtils-Install/\*

dist/Math-BigInt/\*

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dist/Math-BigRat/\*

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dist/base/\*

dist/constant/\*

dist/Devel-SelfStubber/\*

dist/Dumpvalue/\*

dist/Env/\*

dist/ExtUtils-Command/\*

dist/ExtUtils-Manifest/\*

dist/I18N-Collate/\*

dist/if/\*

dist/Safe/\*

ext/Fcntl/\*

ext/FileCache/\*

ext/GDBM\_File/\*

ext/IPC-Open2/\*

ext/IPC-Open3/\*

ext/NDBM\_File/\*

ext/ODBM\_File/\*

ext/Opcode/\*

ext/PerlIO-encoding/\*

ext/PerlIO-scalar/\*

ext/PerlIO-via/\*

ext/POSIX/\*  
ext/re/\*  
ext/Socket/\*  
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ext/File-Glob/bsd\_glob.h

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```
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```

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

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cpan/Win32API-File/\*

dist/bignum/\*

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Files:

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dist/base/\*

dist/B-Lint/\*

dist/constant/\*

dist/Devel-SelfStubber/\*

dist/Dumpvalue/\*

dist/Env/\*

dist/ExtUtils-Command/\*

dist/ExtUtils-Manifest/\*

dist/File-Checktree/\*

dist/I18N-Collate/\*

dist/if/\*

dist/Safe/\*

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ext/FileCache/\*

ext/GDBM\_File/\*

ext/IPC-Open2/\*

ext/IPC-Open3/\*  
ext/NDBM\_File/\*  
ext/ODBM\_File/\*  
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ext/PerlIO-encoding/\*  
ext/PerlIO-scalar/\*  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
#!/usr/bin/perl -w
```

```
use strict;
```

```
use Test::More tests => 8;
```

```
my $upstream_version;
```

```
ok(open(P, "dpkg-parsechangelog |"), "successfully piping from dpkg-parsechangelog");
```

```
while (<P>) {
```

```
    /^Version: (.+)-[^-]+$/ or next;
```

```
    $upstream_version = $1;
```

```
    last;
```

```
}
```

```
isnt($upstream_version, "", "found upstream version from dpkg-parsechangelog output");
```

```
ok(close P, "dpkg-parsechangelog exited normally");
```

```
my $checked_version;
```

```
ok(open(C, "<debian/copyright"), "successfully opened debian/copyright");
```

```
while (<C>) {
```

```
    next if !/^ Last checked against: Perl (.+)/;
```

```
    $checked_version = $1;
```

```
    last;
```

```
}
```

```
isnt($checked_version, "", "found checked version from debian/copyright");
```

```

close C;

is($checked_version, $upstream_version,
  "debian/copyright last checked for the current upstream version");

SKIP: {
  system('which cme >/dev/null 2>&1');
  my $cmd;
  if ($?) {
    system('which config-edit >/dev/null 2>&1');
    skip('no cme or config-edit or available', 2) if $?;
    $cmd = 'config-edit -application dpkg-copyright -ui none';
  } else {
    $cmd = 'cme check dpkg-copyright';
  }
  diag("checking debian/copyright which copyright checker '$cmd'");
  unlike( qx/$cmd 2>&1/, qr/error/,
    'no error messages from copyright checker when parsing debian/copyright');
  is($?, 0, 'copyright checker exited successfully');
}

```

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```
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```

```
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```

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```
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```

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

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-----  
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```
-----  
---  
abstract: 'Build and install Perl modules'  
author:  
- 'Ken Williams <kwilliams@cpan.org>'  
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-  
build@perl.org>."  
build_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: http://module-build.sourceforge.net/META-spec-v1.4.html  
version: 1.4  
name: Module-Build  
resources:  
MailingList: mailto:module-build@perl.org  
license: http://dev.perl.org/licenses/  
repository: http://github.com/dagolden/module-build/  
version: 3  
use strict;  
use lib 't/lib';  
use MBTest;  
use DistGen;  
  
plan 'no_plan';  
  
# Ensure any Module::Build modules are loaded from correct directory  
blib_load('Module::Build');  
  
#-----#  
# Create test distribution  
#-----#
```



```

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);
}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);
}

```

}

# Test with alpha number

# vim:ts=2:sw=2:et:sta:sts=2

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```

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```

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```
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at assemblers) written by James Hacker.
```

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

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# 4.300 php5 5.5.9+dfsg :1ubuntu4

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This package was debianized by Gergely Madarasz <gorgo@sztaki.hu> on Tue, 16 Nov 1999 19:33:42 +0100.

Previous maintainers of the package also include:

Petr Cech <cech@debian.org>, who did a LOT of work on these packages.  
Adam Conrad <adconrad@0c3.net>, who got a significant chunk of input and help from Steve Langasek <vorlon@debian.org> and  
Andres Salomon <dilinger@debian.org>.

The current maintainers can be contacted via the debian php packaging list:  
pkg-php-maint@lists.aliases.debian.org

It was downloaded from [www.php.net/version5/downloads](http://www.php.net/version5/downloads)  
Changes: removed ext/dbase dir (non-free)

Noteworthy/non-trivial patches:

patch: use\_embedded\_timezonedb.patch  
contributor: Joe Orton <jorton@redhat.com>  
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Upstream Authors: The PHP group for PHP5, Andi Gutmans and Zeev Suraski for libzend

The file ext/standard/rand.c contains the following clause with a statement that isn't compatible with the DFSG:

"The code as Shawn received it included the following notice:

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# charset=UTF-8

# vim600: encoding=UTF-8

"streamable kanji code filter and converter"

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just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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[This is the first released version of the library GPL. It is  
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## 4.304 popularity-contest 1.57ubuntu1

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## 4.305 ppp 2.4.5-5.1ubuntu2.2

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This is the Debian GNU/Linux prepackaged version of ppp.

This package was previously maintained by Ian Murdock <imurdock@debian.org>, Alvar Bray <alvar@debian.org>, Christoph Lameter <clameter@debian.org>, Philip Hands <phil@hands.com>, Michael Beattie <mjb@debian.org> and Russell Coker <russell@coker.com.au>.

It is currently maintained by Marco d'Itri <md@linux.it>.

Original sources were obtained from:

`git://ozlabs.org/~paulus/ppp.git`

The options file was originally obtained from:

`ftp://sunsite.unc.edu/pub/Linux/system/Network/serial/pppopt.tgz`

It was later heavily modified by various people, with additions from different sources.

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## 4.306 pppconfig 2.3.19ubuntu1

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## 4.317 pypa wheel 0.24.0

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### A. HISTORY OF THE SOFTWARE

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

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

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



All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

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## 4.319 python-apt 0.9.3.5ubuntu2

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## 4.320 python-characteristic 14.3.0

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Upstream-Name: chardet

Upstream-Contact: Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>

Source: <https://pypi.python.org/pypi/chardet>

Files: \*

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Upstream-Name: python-colorama

Source: <http://pypi.python.org/pypi/colorama/>

Files: \*

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## 4.323 python-debian 0.1.21 :nmu2ubuntu2

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## 4.324 python-defaults 2.7.5 :5ubuntu3

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

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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dh\_python2, pycompile, pyclean and debpython module:

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

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- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

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

Evan Jones <evanj@mit.edu>  
\* 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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\* Fixed detection of sched\_yield on Solaris.  
\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM x1C compiler build issues  
\* Added atomicops for AIX (POWER)

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## 4.335 python-pyinotify 0.9.6

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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## 4.342 python-urllib3 1.13.1 :2ubuntu0.16.04.1

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Source: <http://pypi.python.org/pypi/urllib3>

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\* HTTPS patch (which inspired HTTPSConnectionPool)

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

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* 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()``.
  
- \* 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.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 4.343 python-urllib3 1.7.1 :1ubuntu4

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\* HTTPS patch (which inspired HTTPSConnectionPool)

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

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <[niphlod@gmail.com](mailto: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/>>
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  - \* 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](mailto:jaywink@basshero.org)>
- \* Add missing `WrappedSocket.fileno` method in `PyOpenSSL`
  
- \* Audrius Butkevicius <[audrius.butkevicius@elastichosts.com](mailto:audrius.butkevicius@elastichosts.com)>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <[sholsapp@gmail.com](mailto:sholsapp@gmail.com)>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <[Martin.vGagern@gmx.net](mailto:Martin.vGagern@gmx.net)>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <[kev@inburke.com](mailto:kev@inburke.com)> and Pavel Kirichenko <[juanych@yandex-team.ru](mailto:juanych@yandex-team.ru)>
- \* Support for separate connect and request timeouts
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 4.344 python2.7 2.7.12 :1~16.04

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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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2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
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2.7	2.6	2010	PSF	yes

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Mersenne Twister

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The `\_random` module includes code based on a download from  
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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

Sockets

-----

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/about/index.html>.

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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



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

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## 4.346 python3-defaults 3.5.1 :3

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

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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3.0	2.6	2008	PSF	yes
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### :1~14.04.2

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4.1	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

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## 4.348 python3.4 3.4.3 :1ubuntu1~14.04.3

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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Mersenne Twister

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

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Floating point exception control  
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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

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

In 1995, Guido continued his work on Python at the Corporation for



National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes

2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
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Mersenne Twister

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

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

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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

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@c ispell-local-pdict: "ispell-dict"

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:

<ftp.gnu.org/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

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/\* A front-end using readline to "cook" input lines for Kawa.

\*

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This is Debian GNU/Linux's prepackaged version of the FSF's GNU  
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This package was put together by Matthias Klose <doko@debian.org>, derived  
from the bash package by Guy Maor <maor@debian.org>, from the GNU sources at

<ftp.gnu.org/pub/gnu/readline/readline-6.0.tar.gz>.

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Upstream-Contact: Robin Barker <RMBarker@cpan.org>

Upstream-Name: File-Rename

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## 4.359 requests 2.12.4

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## 4.360 resource-agents 1:3.9.7 :1

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Upstream-Name: resource-agents

Source: <https://github.com/ClusterLabs/resource-agents>

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

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

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

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

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```

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

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

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

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## 4.365 sed 4.2.2 :4ubuntu1

### 4.365.1 Available under license :

=====

Test 1.1:101

=====

Testing argument parsing

First type

e1\_11\_1

e1\_11\_1

e1\_11\_2

e1\_11\_2

e1\_11\_3

e1\_11\_3

e1\_11\_4

e1\_11\_4

e1\_11\_5

e1\_11\_5

e1\_11\_6

e1\_11\_6

e1\_11\_7

e1\_11\_7

e1\_11\_8

e1\_11\_8

e1\_11\_9

e1\_11\_9

e1\_11\_10

e1\_11\_10

e1\_11\_11

e1\_11\_11

e1\_11\_12

e1\_11\_12

e1\_11\_13

e1\_11\_13

e1\_11\_14

e1\_11\_14

=====

Test 1.2:102

=====

e1\_11\_1

e1\_11\_2

e1\_11\_3

e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====  
Test 1.3:103

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====  
Test 1.4:104

=====

e1\_11\_1



e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14  
Second type

=====  
Test 1.4.1:105  
=====

l1\_1  
l1\_2  
l1\_3  
l1\_4  
l1\_5  
l1\_6  
l1\_7  
l1\_8  
l1\_9  
l1\_10  
l1\_11  
l1\_12  
l1\_13  
l1\_14

=====  
Test 1.5:106  
=====

s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6

s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====

Test 1.6:107

=====

s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====

Test 1.7:108

=====

e1\_11\_1

e1\_11\_1

e1\_11\_2

e1\_11\_2

e1\_11\_3

e1\_11\_3

e1\_11\_4

e1\_11\_4

e1\_11\_5

e1\_11\_5

e1\_11\_6

e1\_11\_6

e1\_11\_7

e1\_11\_7

e1\_11\_8

e1\_11\_8

e1\_11\_9

e1\_11\_9

e1\_11\_10

e1\_11\_10

e1\_11\_11

e1\_11\_11

e1\_11\_12

e1\_11\_12

e1\_11\_13

e1\_11\_13

e1\_11\_14

e1\_11\_14

=====

Test 1.8:109

=====

e1\_11\_1

e1\_11\_1

e1\_11\_2

e1\_11\_2

e1\_11\_3

e1\_11\_3

e1\_11\_4

e1\_11\_4

e1\_11\_5

e1\_11\_5

e1\_11\_6

e1\_11\_6

e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.9:110

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.10:111

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10

s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.11:112

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.12:113

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.13:114

=====

e1\_11\_1  
e2\_e1\_11\_1  
e2\_e1\_11\_1  
e1\_11\_2

e2\_e1\_11\_2  
e2\_e1\_11\_2  
e1\_11\_3  
e2\_e1\_11\_3  
e2\_e1\_11\_3  
e1\_11\_4  
e2\_e1\_11\_4  
e2\_e1\_11\_4  
e1\_11\_5  
e2\_e1\_11\_5  
e2\_e1\_11\_5  
e1\_11\_6  
e2\_e1\_11\_6  
e2\_e1\_11\_6  
e1\_11\_7  
e2\_e1\_11\_7  
e2\_e1\_11\_7  
e1\_11\_8  
e2\_e1\_11\_8  
e2\_e1\_11\_8  
e1\_11\_9  
e2\_e1\_11\_9  
e2\_e1\_11\_9  
e1\_11\_10  
e2\_e1\_11\_10  
e2\_e1\_11\_10  
e1\_11\_11  
e2\_e1\_11\_11  
e2\_e1\_11\_11  
e1\_11\_12  
e2\_e1\_11\_12  
e2\_e1\_11\_12  
e1\_11\_13  
e2\_e1\_11\_13  
e2\_e1\_11\_13  
e1\_11\_14  
e2\_e1\_11\_14  
e2\_e1\_11\_14

=====

Test 1.14:115

=====

s1\_11\_1  
s2\_s1\_11\_1  
s2\_s1\_11\_1  
s1\_11\_2  
s2\_s1\_11\_2  
s2\_s1\_11\_2

s1\_11\_3  
s2\_s1\_11\_3  
s2\_s1\_11\_3  
s1\_11\_4  
s2\_s1\_11\_4  
s2\_s1\_11\_4  
s1\_11\_5  
s2\_s1\_11\_5  
s2\_s1\_11\_5  
s1\_11\_6  
s2\_s1\_11\_6  
s2\_s1\_11\_6  
s1\_11\_7  
s2\_s1\_11\_7  
s2\_s1\_11\_7  
s1\_11\_8  
s2\_s1\_11\_8  
s2\_s1\_11\_8  
s1\_11\_9  
s2\_s1\_11\_9  
s2\_s1\_11\_9  
s1\_11\_10  
s2\_s1\_11\_10  
s2\_s1\_11\_10  
s1\_11\_11  
s2\_s1\_11\_11  
s2\_s1\_11\_11  
s1\_11\_12  
s2\_s1\_11\_12  
s2\_s1\_11\_12  
s1\_11\_13  
s2\_s1\_11\_13  
s2\_s1\_11\_13  
s1\_11\_14  
s2\_s1\_11\_14  
s2\_s1\_11\_14

=====

Test 1.15:116

=====

e1\_11\_1  
s1\_e1\_11\_1  
s1\_e1\_11\_1  
e1\_11\_2  
s1\_e1\_11\_2  
s1\_e1\_11\_2  
e1\_11\_3  
s1\_e1\_11\_3

s1\_e1\_11\_3  
e1\_11\_4  
s1\_e1\_11\_4  
s1\_e1\_11\_4  
e1\_11\_5  
s1\_e1\_11\_5  
s1\_e1\_11\_5  
e1\_11\_6  
s1\_e1\_11\_6  
s1\_e1\_11\_6  
e1\_11\_7  
s1\_e1\_11\_7  
s1\_e1\_11\_7  
e1\_11\_8  
s1\_e1\_11\_8  
s1\_e1\_11\_8  
e1\_11\_9  
s1\_e1\_11\_9  
s1\_e1\_11\_9  
e1\_11\_10  
s1\_e1\_11\_10  
s1\_e1\_11\_10  
e1\_11\_11  
s1\_e1\_11\_11  
s1\_e1\_11\_11  
e1\_11\_12  
s1\_e1\_11\_12  
s1\_e1\_11\_12  
e1\_11\_13  
s1\_e1\_11\_13  
s1\_e1\_11\_13  
e1\_11\_14  
s1\_e1\_11\_14  
s1\_e1\_11\_14

=====

Test 1.16:117

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5



e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14  
e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.17:118

=====

11\_1

11\_1

11\_2

11\_2

11\_3

11\_3

11\_4

11\_4

11\_5

11\_5

11\_6

11\_6

11\_7

11\_7

11\_8

11\_8

11\_9

11\_9

11\_10

11\_10

11\_11

11\_11

11\_12

11\_12

11\_13

11\_13

11\_14

11\_14

=====

Test 1.18:119

=====

11\_1

11\_2

11\_3

11\_4

11\_5

11\_6

11\_7

11\_8

11\_9

11\_10

11\_11

11\_12

11\_13

11\_14

Testing address ranges

=====  
Test 2.1:120

=====  
11\_4

=====  
Test 2.2:121

=====  
12\_6

=====  
Test 2.3:122

=====  
11\_14

=====  
Test 2.4:123

=====  
12\_9

=====  
Test 2.5:124

=====  
Test 2.6:125

=====  
12\_9

=====  
Test 2.7:126

=====  
Test 2.9:127

=====  
11\_7

=====  
Test 2.10:128

=====  
11\_7

=====  
Test 2.11:129

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

11\_7

=====  
Test 2.12:130

=====  
11\_1  
11\_2  
11\_3  
11\_4

=====  
Test 2.13:131

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.14:132

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.15:133

=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.16:134

=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6

=====

Test 2.17:135

=====

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_14  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.18:136

=====

12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.19:137

=====

11\_12

=====

Test 2.20:138

=====

11\_7

Brace and other grouping

=====

Test 3.1:139

=====

11\_1

11\_2

11\_3

^11T4\$

^11T5\$

^11T6\$

^11T7\$

^11T8\$

^11T9\$

^11T10\$

^11T11\$

^11T12\$

11\_13

11\_14

=====

Test 3.2:140

=====

11\_1

11\_2

11\_3

^11\_4

^11\_5

^11\_6\$

^11\_7\$

^11T8\$

^11\_9\$

^11\_10\$

^11\_11

^11\_12

11\_13

11\_14

=====

Test 3.3:141

=====

^11T1\$

^11T2\$  
^11T3\$  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11T13\$  
^11T14\$

=====  
Test 3.4:142

=====

^11\_1  
^11\_2  
^11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
^11\_13  
^11\_14

Testing a c d and i commands

=====

Test 4.1:143

=====

before\_il1\_1  
after\_ibefore\_il1\_1  
before\_il1\_2  
after\_ibefore\_il1\_2  
before\_il1\_3  
after\_ibefore\_il1\_3  
before\_il1\_4  
after\_ibefore\_il1\_4  
before\_il1\_5  
after\_ibefore\_il1\_5  
before\_il1\_6  
after\_ibefore\_il1\_6



before\_il1\_7  
after\_ibefore\_il1\_7  
before\_il1\_8  
after\_ibefore\_il1\_8  
before\_il1\_9  
after\_ibefore\_il1\_9  
before\_il1\_10  
after\_ibefore\_il1\_10  
before\_il1\_11  
after\_ibefore\_il1\_11  
before\_il1\_12  
after\_ibefore\_il1\_12  
before\_il1\_13  
after\_ibefore\_il1\_13  
before\_il1\_14  
after\_ibefore\_il1\_14  
before\_il2\_1  
after\_ibefore\_il2\_1  
before\_il2\_2  
after\_ibefore\_il2\_2  
before\_il2\_3  
after\_ibefore\_il2\_3  
before\_il2\_4  
after\_ibefore\_il2\_4  
before\_il2\_5  
after\_ibefore\_il2\_5  
before\_il2\_6  
inserted  
after\_ibefore\_il2\_6  
before\_il2\_7  
after\_ibefore\_il2\_7  
before\_il2\_8  
after\_ibefore\_il2\_8  
before\_il2\_9  
after\_ibefore\_il2\_9

=====

Test 4.2:144

=====

before\_al1\_1  
after\_abefore\_al1\_1  
before\_al1\_2  
after\_abefore\_al1\_2  
before\_al1\_3  
after\_abefore\_al1\_3  
before\_al1\_4  
after\_abefore\_al1\_4  
before\_a5-1211\_5

after\_abefore\_a5-1211\_5  
appended  
before\_a5-1211\_6  
after\_abefore\_a5-1211\_6  
appended  
before\_a5-1211\_7  
after\_abefore\_a5-1211\_7  
appended  
before\_a5-1211\_8  
after\_abefore\_a5-1211\_8  
appended  
before\_a5-1211\_9  
after\_abefore\_a5-1211\_9  
appended  
before\_a5-1211\_10  
after\_abefore\_a5-1211\_10  
appended  
before\_a5-1211\_11  
after\_abefore\_a5-1211\_11  
appended  
before\_a5-1211\_12  
after\_abefore\_a5-1211\_12  
appended  
before\_al1\_13  
after\_abefore\_al1\_13  
before\_al1\_14  
after\_abefore\_al1\_14  
before\_al2\_1  
after\_abefore\_al2\_1  
before\_al2\_2  
after\_abefore\_al2\_2  
before\_al2\_3  
after\_abefore\_al2\_3  
before\_al2\_4  
after\_abefore\_al2\_4  
before\_al2\_5  
after\_abefore\_al2\_5  
before\_al2\_6  
after\_abefore\_al2\_6  
before\_al2\_7  
after\_abefore\_al2\_7  
before\_al2\_8  
after\_abefore\_al2\_8  
before\_al2\_9  
after\_abefore\_al2\_9

=====

Test 4.3:145

=====

^11\_1  
^11\_1\$  
appended  
^11\_2  
^11\_2\$  
appended  
^11\_3  
^11\_3\$  
appended  
^11\_4  
^11\_4\$  
appended  
^11\_5  
^11\_5\$  
appended  
^11\_6  
^11\_6\$  
appended  
^11\_7  
^11\_7\$  
appended  
^11\_8  
appended  
^11\_8  
11\_9\$  
^11\_10  
appended  
^11\_10  
11\_11\$  
^11\_12  
^11\_12\$  
appended  
^11\_13  
^11\_13\$  
appended  
^11\_14  
^11\_14\$  
appended  
^12\_1  
^12\_1\$  
^12\_2  
^12\_2\$  
^12\_3  
^12\_3\$  
^12\_4  
^12\_4\$  
^12\_5

^12\_5\$  
^12\_6  
^12\_6\$  
^12\_7  
^12\_7\$  
^12\_8  
^12\_8\$  
^12\_9  
^12\_9\$

=====  
Test 4.4:146  
=====

hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello

=====  
Test 4.5:147  
=====

hello

=====  
Test 4.6:148  
=====

hello

=====  
Test 4.7:149  
=====

hello

=====  
Test 4.8:150  
=====

Testing labels and branching

=====

Test 5.1:151

=====

label2\_11\_1

label3\_label2\_11\_1

label1\_11\_2

label1\_11\_3

label1\_11\_4

label1\_11\_5

label1\_11\_6

label1\_11\_7

label1\_11\_8

label1\_11\_9

label1\_11\_10

label1\_11\_11

label1\_11\_12

label2\_11\_13

label3\_label2\_11\_13

label2\_11\_14

label3\_label2\_11\_14

=====

Test 5.2:152

=====

tested l2\_1

tested l2\_2

tested l2\_3

tested l2\_4

tested l2\_5

tested l2\_6

tested l2\_7

tested l2\_8

tested l2\_9

tested l2\_10

tested l2\_11

tested l2\_12

tested l2\_13

tested l2\_14

=====

Test 5.3:153

=====

^11\_1

^11\_1\$

^11\_2

^11\_2\$

^11\_3

^11\_3\$

^11\_4  
^11\_4\$  
11\_5\$  
11\_6\$  
11\_7\$  
11\_8\$

=====  
Test 5.4:154

=====  
^11\_1\$  
^11\_2\$  
^11\_3\$  
^11\_4\$  
^11\_5\$  
^11\_6\$  
^11\_7\$  
^11\_8\$  
11\_9\$  
11\_10\$  
11\_11\$  
11\_12\$  
11\_13\$  
11\_14\$

=====  
Test 5.5:155

=====  
^11\_1  
^11\_2  
^11\_4  
^11\_6  
^11\_8

=====  
Test 5.6:156

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5

=====  
Test 5.7:157

=====  
11\_1  
11\_2

l1\_3  
l1\_4  
hello  
l1\_5

=====

Test 5.8:158

=====

m1\_1  
m1\_2  
m1\_3  
m1\_4  
m1\_5  
m1\_6  
m1\_7  
m1\_8  
m1\_9  
m1\_10  
m1\_11  
m1\_12  
m1\_13  
m1\_14

Pattern space commands

=====

Test 6.1:159

=====

changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed  
changed

=====

Test 6.2:160

=====

l1\_1  
l1\_2  
l1\_3

11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.3:161

=====

11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.4:162

=====

11\_1  
11\_2  
11\_3  
11\_2  
11\_3  
11\_5  
11\_2  
11\_3  
11\_2  
11\_3  
11\_6  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14



=====

Test 6.5:163

=====

11\_1

11\_2

11\_3

11\_4

11\_5

11\_6

11\_7

11\_8

11\_9

11\_10

11\_11

11\_12

11\_13

11\_14

=====

Test 6.6:164

=====

Testing print and file routines

=====

Test 7.1:165

=====

\001\002\003\004\005\006\a\b\t\$

\v\f\r\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\

\035\036\037 !"#%&'()\*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN

OPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxy

{|}~\177\200\201\202\203\204\205\

\206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\

\227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\

\250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\

\271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\

\312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\

\333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\

\354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\

\375\376\377\$

\$

=====

Test 7.2:166

=====

11\_1

11\_2

11\_3

11\_4

11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
15  
12\_1  
16  
12\_2  
17  
12\_3  
18  
12\_4  
19  
12\_5  
20  
12\_6  
21  
12\_7  
22  
12\_8  
23  
12\_9

=====

Test 7.3:167

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14  
w results  
11\_3

11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12

=====

Test 7.4:168

=====

11\_1  
11\_2  
11\_3  
11\_4  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 7.5:169

=====

11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.6:170

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 7.8:171  
=====

Testing substitution commands

=====  
Test 8.1:172

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.2:173

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.3:174

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.4:175

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 8.5:176

=====  
11X1  
11X2  
11X3  
11X4  
11X5  
11X6  
11X7  
11X8  
11X9  
11X10  
11X11  
11X12  
11X13  
11X14

=====  
Test 8.6:177

=====  
(1)(1)(1)  
(1)(1)(2)  
(1)(1)(3)  
(1)(1)(4)  
(1)(1)(5)  
(1)(1)(6)  
(1)(1)(7)  
(1)(1)(8)  
(1)(1)(9)  
(1)(1)(1)(0)  
(1)(1)(1)(1)  
(1)(1)(1)(2)  
(1)(1)(1)(3)  
(1)(1)(1)(4)

=====  
Test 8.7:178

=====  
(&)(&)(&)(&)  
(&)(&)(&)(&)

(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)  
(&)(&)(&)(&)(&)

=====  
Test 8.8:179

=====  
x\_x1x11  
x\_x1x12  
x\_x1x13  
x\_x1x14  
x\_x1x15  
x\_x1x16  
x\_x1x17  
x\_x1x18  
x\_x1x19  
x\_x1x110  
x\_x1x111  
x\_x1x112  
x\_x1x113  
x\_x1x114

=====  
Test 8.9:180

=====  
11u0  
u1  
u21  
11u0  
u1  
u22  
11u0  
u1  
u23  
11u0  
u1  
u24  
11u0  
u1

u25  
l1u0  
u1  
u26  
l1u0  
u1  
u27  
l1u0  
u1  
u28  
l1u0  
u1  
u29  
l1u0  
u1  
u210  
l1u0  
u1  
u211  
l1u0  
u1  
u212  
l1u0  
u1  
u213  
l1u0  
u1  
u214

=====

Test 8.10:181

=====

l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X0  
l1\_X1  
l1\_X2  
l1\_X3  
l1\_X4

=====



Test 8.11:182

=====

IX\_1

IX\_2

IX\_3

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_10

IX\_11

IX\_12

IX\_13

IX\_14

s wfile results

IX\_1

IX\_2

IX\_3

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_10

IX\_11

IX\_12

IX\_13

IX\_14

=====

Test 8.12:183

=====

IX\_X

IX\_X

IX\_X

IX\_4

IX\_5

IX\_6

IX\_7

IX\_8

IX\_9

IX\_X0

IX\_XX

IX\_XX

IX\_XX

IX\_X4

=====  
Test 8.13:184

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86  
18\_85

=====  
Test 8.14:185

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86  
18\_85

=====  
Test 8.15:186

=====  
11\_1X11\_2  
11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====  
Test 8.16:187

=====  
eeefff  
Xeefff  
XYefff  
XYeYff  
XYeYYf  
XYeYYY  
XYeYYY

=====  
Test 8.17:188

=====  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&

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```
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## 4.370 shared-mime-info 1.5 :2ubuntu0.1

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## 4.374 sqlite3 3.11.0 :1ubuntu1

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## 4.376 ssh-import-id 5.5 :0ubuntu1

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## 4.377 strace 4.8 :1ubuntu5

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## 4.378 stunnel 4.56 :6.e17

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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.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Andrew, Nick  
Andric, Dimitry  
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Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Miller, Todd C.  
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Pickett, Joel  
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Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

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

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Chornoivan, Yuri  
Diguez, Francisco  
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## 4.382 systemd-shim 6 :2bzd1

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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)>,  
\* public domain.

This package contains the scripts that are executed at start and shutdown of Debian systems.

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in the right order at bootup/shutdown time, and when changing runlevels.  
It works through managing symlinks in `/etc/rc?.d`

This package is built from the `'sysvinit'` source package. Please  
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## 4.384 tar 1.28 :2.1

### 4.384.1 Available under license :

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tar, heavily based on John Gilmore's public domain version of tar,  
was originally written by Graham Todd. It is now maintained by  
Paul Eggert <[eggert@twinsun.com](mailto:eggert@twinsun.com)>.

This package is maintained for Debian by Bdale Garbee <[bdale@gag.com](mailto:bdale@gag.com)>, and  
was built from the sources found at:

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Version 2.1, February 1999

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

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## 4.396 ufw 0.34~rc-0ubuntu2 :0ubuntu2

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Version 3, 29 June 2007

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on  
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It was downloaded from <http://code.launchpad.net/~ubuntu-core-dev/update-manager/main>

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```
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```

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```
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```

```
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term-utils/script.c  
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text-utils/hexdump.h  
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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

-----

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

-----

```
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img
```

```
---layout-----
```

```
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
```

```
Device  Boot Start  End Sectors Size Id Type
<removed>1    2048 4095   2048  1M 83 Linux
<removed>2    4096 20479 16384   8M a5 FreeBSD
```

```
-----
```

```
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img
```

```
---layout-----
```

```
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
```

```
Command (m for help): Entering nested BSD disklabel.
```

```
Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
```

```
Slice Start  End Sectors  Size Type  Fsize Bsize Cpg
c   4096 20479 16384   8M unused   0   0  0
d     0 16064 16065  7.9M unused   0   0  0
```

```
Partition table entries are not in disk order.
```

```
Command (m for help): Leaving nested disklabel.
```

```
Command (m for help):
```

```
-----
```

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap	6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

Command (m for help):

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```
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```

<signature of Ty Coon>, 1 April 1989

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## 4.403 vim 2:7.4.1689 :3ubuntu1.1

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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a

production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.



Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is

preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

## 4.404 virtualenv 15.1.0

### 4.404.1 Available under license :

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## 4.405 wget 1.15-1ubuntu1

### 4.405.1 Available under license :

This package was debianized by

Christian Schwarz <schwarz@monet.m.isar.de> on Mon, 18 Nov 1996 00:59:57 +0100

J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000

Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300

Noel Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from <ftp://ftp.gnu.org/gnu/wget/>

Homepage: <http://www.gnu.org/directory/wget.html>

<http://www.gnu.org/software/wget/wget.html>

Upstream Author: Giuseppe Scrivano <gscrivano@gnu.org>

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## 4.406 wget 1.17.1 :1ubuntu1.1

## 4.406.1 Available under license :

This package was debianized by

Christian Schwarz <schwarz@monet.m.isar.de> on Mon, 18 Nov 1996 00:59:57 +0100

J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000

Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300

Nol Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from <ftp://ftp.gnu.org/gnu/wget/>

Homepage: <http://www.gnu.org/directory/wget.html>

<http://www.gnu.org/software/wget/wget.html>

Upstream Author: Giuseppe Scrivano <gscrivano@gnu.org>

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Upstream-Name: wheel

Source: <https://pypi.python.org/pypi/wheel>

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```

```
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## 4.410 xapian-core 1.2.16 :2ubuntu1

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## 4.416 zerofree 1.0.2-1ubuntu1 :1ubuntu1



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## 4.417 zlib 1.2.8 :1ubuntu1

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Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the



people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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## 4.418 zope.interface 4.3.3

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