Open Source Used In DNAC Platform

Cyclops

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1.6 pako 0.2.9 0.2.9

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1.7 bl 1.2.2 1.2.2

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1.8 extsprintf 1.3.0 1.3.0

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1.12 babel-plugin-transform-es2015-function-name 6.24.1 6.24.1

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1.13 through2 2.0.5 2.0.5

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1.16 jetty-client 9.3.27.v20190418

1.17 librest 0.7.93-1

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1.18 mongodb 2.2.35 2.2.35

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1.23 backo2 1.0.2 1.0.2

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1.32 qs 6.7.0 6.7.0

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1.39 slf4j 1.7.26

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  </head>
  <body>
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    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="right">
      <script src="templates/right.js" type="text/javascript"></script>
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1.40 swagger-jersey2-jaxrs 1.5.0

1.41 har-validator 5.1.3 5.1.3
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1.42 mesa 18.0.5-0ubuntu0~16.04.1

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Gallium code      src/gallium/           MIT
Ext headers       include/GL/glext.h    Khronos
                  include/GL/glxext.h
GLX client code   src/glx/               SGI Free Software License B
C11 thread        include/c11/threads*.h Boost (permissive)
</pre>

C11 thread emulation

</p>

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</p>

</div>
</body>
</html>
/* Legal characters in GLSL are:
 * Identifier characters:
 * 
 *   Letters a-z
 *   Letters A-Z
 *   Underscore
 *   Numbers 0-9
 * 
 * Punctuation:
 * 
 *   Period, plus, dash, slash, asterisk, percent, angled brackets,
 *   square brackets, parentheses, braces, caret, vertical bar,
 *   ampersand, tilde, equals, exclamation point, colon, semicolon,
 *   comma, and question mark
 * 
 * Special:
 * 
 *   Number sign (as used in preprocessor)
 * 
 *   Backslash just before newline as line continuation
 * 
 * White space:
 * 
 *   Space, horizontal tab, vertical tab, form feed, carriage-return,
 *   and line-feed.
 * 
 * [GLSL Language Specficiation 4.30.6, section 3.1]
 * 
 * In this file, we test each of these in turn as follows:
 * 
 * Identifier characters: All pass through unchanged
 * Punctuation: All pass through unchanged
 * Special: Empty directive replaced with blank line
 *   Line continuation merges two lines, then a blank line
 * Whitespace: 4 horizontal space characters each replaced with space
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1.44 asm 3.3.1

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1.45 assert-plus 1.0.0 1.0.0

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1.46 eclipse-egit-github-core 2.1.5

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*
* Contributors:
* Kevin Sawicki (GitHub Inc.) - initial API and implementation
**************************************************************************
package org.eclipse.egit.github.core;
import java.io.Serializable;

/**
 * Repository contributor model class
 */
public class Contributor implements Serializable {

    /** serialVersionUID */
    private static final long serialVersionUID = -8434028880839230626L;

    /**
     * Anonymous contributor type value
     */
    public static final String TYPE_ANONYMOUS = "Anonymous"; //SNON-NLS-1$

    private int contributions;
    private int id;
    private String avatarUrl;
    private String login;
    private String name;
    private String type;
    private String url;

    /**
     * @return contributions
     */
    public int getContributions() {
        return contributions;
    }

    /**
     * @param contributions
     * @return this contributor
     */
    public Contributor setContributions(int contributions) {
        this.contributions = contributions;
        return this;
    }

    /**
     * @return id
     */
 */
public int getId() {
    return id;
}

/**
 * @param id
 * @return this contributor
 */
public Contributor setId(int id) {
    this.id = id;
    return this;
}

/**
 * @return avatarUrl
 */
public String getAvatarUrl() {
    return avatarUrl;
}

/**
 * @param avatarUrl
 * @return this contributor
 */
public Contributor setAvatarUrl(String avatarUrl) {
    this.avatarUrl = avatarUrl;
    return this;
}

/**
 * @return login
 */
public String getLogin() {
    return login;
}

/**
 * @param login
 * @return this contributor
 */
public Contributor setLogin(String login) {
    this.login = login;
    return this;
}

/**
 * @return name
 */
 */
public String getName() {
    return name;
}

/**
 * @param name
 * @return this contributor
 */
public Contributor setName(String name) {
    this.name = name;
    return this;
}

/**
 * @return type
 */
public String getType() {
    return type;
}

/**
 * @param type
 * @return this contributor
 */
public Contributor setType(String type) {
    this.type = type;
    return this;
}

/**
 * @return url
 */
public String getUrl() {
    return url;
}

/**
 * @param url
 * @return this contributor
 */
public Contributor setUrl(String url) {
    this.url = url;
    return this;
}
1.47 jacoco-agent 0.7.9
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1.48 formidable 1.1.1 1.1.1
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1.49 deep-extend 0.4.2 0.4.2
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1.50 esprima 1.0.4 1.0.4

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1.51 hide-powered-by 1.0.0 1.0.0
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1.52 strip-json-comments 2.0.1 2.0.1

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1.53 core-js 2.6.11 2.6.11
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1.54 os-tmpdir 1.0.2 1.0.2
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1.55 httpclient 4.5.3

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1.57 httpcomponents-core 4.4.6

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1.86 fbjs 0.8.17 0.8.17

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*/

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

// ES3/ES5 implementation of the Khronos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

1.92 process-nextick-args 2.0.1 2.0.1

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1.95 jsreport-browser-client 2.0.0 2.0.0

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1.104 restore-cursor 2.0.0 2.0.0

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1.130 babel-helper-remap-async-to-generator

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1.151 bson4jackson 2.7.0

1.152 which 1.3.1 1.3.1
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1.154 spdx-license-ids 3.0.5 3.0.5
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## Installation
## Node.js API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```javascript
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```javascript
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/group/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
jar/io/netty/channel/DefaultAddressedEnvelope.java
/* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelProgressivePromise.java
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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelHandlerMask.java

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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/socket/SocketChannel.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/socket/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelException.java
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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java

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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/PoolHandler.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java

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* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/socket/ChannelOutputShutdownException.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/bootstrap/FailedChannel.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/internal/package-info.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/internal/ChannelUtils.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
  * /opt/ws_local/PERMITS_SQL/1072871146_1595214703.66/0/netty-transport-4-1-42-final-sources-1.jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [ @link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 */
<p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>

* <h3>The context object</h3>

* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]s) which is specific to the handler.

* <h3>State management</h3>

* A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>

* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {

*     private boolean loggedIn;

*     {@code @Override}
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*         } else {


Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel( Channel)}.

public class DataServerInitializer extends {@link ChannelInitializer}{@link Channel}> {
    @Override
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using {@link AttributeKey}s</h4>

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

public interface Message {
    // your methods here
}

public class DataServerHandler extends {@link SimpleChannelInboundHandler}{@link Message}> {
    private final (@link AttributeKey) auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            fail();
        }
    }
}

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel( Channel)}.

public class DataServerInitializer extends {@link ChannelInitializer}{@link Channel}> {
    @Override
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using {@link AttributeKey}s</h4>

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

public interface Message {
    // your methods here
}

public class DataServerHandler extends {@link SimpleChannelInboundHandler}{@link Message}> {
    private final (@link AttributeKey) auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            fail();
        }
    }
}
if (<b>Boolean.TRUE.equals(attr.get())</b>) {
    ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
} else {
    fail();
}
*
*
*
...
*
*
*/

Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

* 

* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {<br>code @Override<br></pre>
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }*
* </pre>
*
*
* <h4>The {code @Sharable} annotation</h4>
* 
* In the example above which used an {link AttributeKey}, you might have noticed the {code @Sharable} annotation.
* 
* <p>
* If a {link ChannelHandler} is annotated with the {code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more {link ChannelPipeline}s multiple times without a race condition.
* 
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* 
* This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/"the JCIP annotations</a>.
* 
* <h3>Additional resources worth reading</h3>
* 
* Please refer to the {link ChannelHandler}, and {link ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
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1.157 signal-exit 3.0.3 3.0.3

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1.158 script-manager 0.8.1 0.8.1

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1.162 grpc-netty-shaded 1.27.1

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1.163 async 0.9.0 0.9.0

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1.164 memoize-one 4.0.3 4.0.3

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1.165 jarchivelib 1.0.0

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1.167 javassist 3.22.0-GA

1.167.1 Available under license:
Manifest-Version: 1.0
Bnd-LastModified: 1507658698220
Build-Jdk: 9
Built-By: smarlow
Bundle-Description: Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation simple. It is a class library for editing b
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1.168 ASM 5.0.3

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Item.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Item.java
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/*
/**
 * Creates a new {link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *  the owner's class name.
 * @param access
 *  the method's access flags (see {link Opcodes}).
 * @param name
 *  the method's name.
 * @param desc
 *  the method's descriptor (see {link Type Type}).
 * @param mv
 *  the method visitor to which this adapter delegates calls. May
 *  be <tt>null</tt>.
 * @throws IllegalStateException
 *  If a subclass calls this constructor.
 */

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/Processor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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*/
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/TypeReference.java

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Constructs a new ClassNode. Subclasses must not use this constructor. Instead, they must use the ClassNode(int) version.

@throws IllegalStateException If a subclass calls this constructor.

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 *            the <code>MethodVisitor</code> to send the resulting inlined
 *            method code to (use <code>null</code> for none).
 * @param access
 *            the method's access flags (see @link Opcodes). This
 *            parameter also indicates if the method is synthetic and/or
 *            deprecated.
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see @link Type).
 * @param signature
 *            the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *            the internal names of the method's exception classes (see
 *            { @link Type#getName()} getInternalName()). May be
 *            <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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1.174 yarns 3.10.0 3.10.0

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1.175 glib 2.48.2 0ubuntu1

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6.22.0 6.22.0

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1.179 readable-stream 1.1.14 1.1.14

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1.180 path-exists 2.1.0 2.1.0

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1.181 fresh 0.5.2 0.5.2

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1.182 path-key 2.0.1 2.0.1

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1.183 tough-cookie 2.4.3 2.4.3

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1.191 fs-readfile-promise 2.0.1 2.0.1
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1.192 cassandra-driver-core 3.2.0

1.193 babel-plugin-transform-exponentiation-operator 6.24.1 6.24.1

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1.194 sqlite 3.30.1

1.195 react-textarea-autosize 6.1.0 6.1.0

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1.196 call-me-maybe 1.0.1 1.0.1

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1.197 async-each 1.0.3 1.0.3

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1.198 core-js 1.2.7 1.2.7
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1.199 jnr-netdb 1.1.6

1.200 hamcrest 1.1
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**1.203 uuid 3.3.2 3.3.2**

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1.205 nopt 1.0.10 1.0.10

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1.206 tiny-inflate 1.0.3 1.0.3
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1.207 xmlhttprequest-ssl 1.5.5 1.5.5

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1.208 jffi 1.2.15

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1.209 validate-npm-package-license 3.0.4

3.0.4

1.209.1 Available under license:

validate-npm-package-license
=================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
```
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

```javascript
}
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
```
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
'"SEE LICENSE IN <filename>"',
];

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
```
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Version 2.0, January 2004
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1.218 babel-helper-replace-supers 6.24.1

6.24.1

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * The annotation may be used in {@link Info#license()} to define a license for the OpenAPI spec.
 * 
 * @see <a target="_new" href="https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md/licenseObject">License (OpenAPI specification)</a>
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@Target({})
@Retention(RetentionPolicy.RUNTIME)
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1.221 any-promise 1.3.0 1.3.0

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1.222 worker-loader 1.1.1 1.1.1

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Jason Garrett-Glaser <darkshikari@gmail.com>
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1.243 babel-preset-env 1.7.0 1.7.0

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1.245 har-validator 5.0.3 5.0.3

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1.246 log4j-slf4j-impl 2.11.1

1.247 progress 2.0.3 2.0.3

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1.249 babel-plugin-syntax-async-functions

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1.250 jsrender 0.9.90 0.9.90

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1.251 bson 1.0.9 1.0.9

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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 /* Set the { @code TCP_QUICKACK} option on the socket. See <a
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* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
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* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1.jar/io/netty/channel/epoll/EpollChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1.jar/io/netty/channel/epoll/EpollEventArray.java

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  jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-
  jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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* /opt/ws_local/PERMITS_SQL/1072871039_1595214875.08/0/netty-transport-native-epoll-4-1-42-final-sources-1-jar/io/netty/channel/epoll/Native.java
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
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Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <sjoj@gmail.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
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Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
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Peter Kaminski <piotrk@google.com>
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1.265 path-to-regexp 1.7.0 1.7.0

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1.293 hk2-utils 2.2.0-b21

1.294 buffer-more-ints 1.0.0 1.0.0

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1.295 path-exists 3.0.0 3.0.0

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1.296 escodegen 0.0.28 0.0.28

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1.297 string_decoder 1.0.3 1.0.3

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1.298 find-up 2.1.0

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1.299 moment 2.22.1 2.22.1
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1.303 are-we-there-yet 1.1.5 1.1.5

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1.307 influx 5.0.7 5.0.7

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1.308 posix-character-classes 0.1.1 0.1.1

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1.309 snapdragon 0.8.2 0.8.2

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1.311 libxext 1.3.3 1

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1.316 regex-not 1.0.2 1.0.2
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1.319 jkeylockmanager 2.1.0

1.320 jetty-continuation 9.3.27.v20190418

1.321 history 3.3.0 3.3.0

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Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
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Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

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.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

1.327 async 2.6.0 2.6.0
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  jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
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  jar/io/netty/handler/codec/socks/SocksAuthStatus.java
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* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksAuthScheme.java
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  jar/io/netty/handler/codec/socksx/SocksVersion.java
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jar/io/netty/handler/codec/socksx/package-info.java
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
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jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
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* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
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jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
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jar/io/netty/handler/codec/socks/SocksAuthRequest.java
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jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/ws_local/PERMITS_SQL/1072871333_1595214884.69/0/netty-codec-socks-4-1-42-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

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1.331 jsreport-pdfjs 0.2.0 0.2.0

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1.332 range-parser 1.0.3 1.0.3

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1.333 uuid 3.2.1 3.2.1

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1.336 findup-sync 2.0.0 2.0.0

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1.337 mingo 2.2.8 2.2.8

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1.338 cookie 0.3.1 0.3.1

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1.342 to-buffer 1.1.1 1.1.1

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1.343 jackson-dataformat-yaml 2.4.2

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

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1.344 from 0.1.7 0.1.7

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1.345 swagger-models 2.0.7

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 */

package io.swagger.v3.oas.models.info;

import java.util.Objects;

/**
 * License
 * *
 * @see "https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject"
 */

public class License {
    private String name = null;
    private String url = null;
    private java.util.Map<String, Object> extensions = null;

    /**
     * returns the name property from a License instance.
     *
     * @return String name
     */
public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public License name(String name) {
    this.name = name;
    return this;
}

/**
* returns the url property from a License instance.
* 
* @return String url
**/

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

public License url(String url) {
    this.url = url;
    return this;
}

@Override
public boolean equals(java.lang.Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    License license = (License) o;
    return Objects.equals(this.name, license.name) &&
            Objects.equals(this.url, license.url) &&
            Objects.equals(this.extensions, license.extensions);
    }
@Override
public int hashCode() {
    return Objects.hash(name, url, extensions);
}

public java.util.Map<String, Object> getExtensions() {
    return extensions;
}

public void addExtension(String name, Object value) {
    if (name == null || name.isEmpty() || !name.startsWith("x-")) {
        return;
    }
    if (this.extensions == null) {
        this.extensions = new java.util.LinkedHashMap<>();
    }
    this.extensions.put(name, value);
}

public void setExtensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
}

public License extensions(java.util.Map<String, Object> extensions) {
    this.extensions = extensions;
    return this;
}

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("class License {
    name: ").append(toIndentedString(name)).append("\n    url: ").append(toIndentedString(url)).append("\n    ");
    return sb.toString();
}

/**
 * Convert the given object to string with each line indented by 4 spaces
 * (except the first line).
 */
private String toIndentedString(java.lang.Object o) {
    if (o == null) {
        return "null";
    }
    return o.toString().replace("\n", "\n    ");
}
1.346 is-data-descriptor 0.1.4 0.1.4

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1.356 event-stream 3.3.4 3.3.4

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1.357 frameguard 2.0.0 2.0.0

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1.359 z-schema 3.19.1 3.19.1

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1.362 passport-http-bearer 1.0.1 1.0.1

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1.364 asn1 0.2.3 0.2.3

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
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morfologik-ukrainian-search is a POS tag dictionary in morfologik format adjusted for searching. It's part of dict_uk project (https://github.com/brown-uk/dict_uk)

Note: to better fit into full-text search model this dictionary has all word forms in lower case but keeps lemmas for proper nouns in upper case.

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### Jdom-contrib version 1.1.3

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Typical users of this library will not need to depend on this module.


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1.374 json-schema-traverse 0.3.1 0.3.1
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1.375 mkdirp 0.5.1 0.5.1
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1.376 babel-helper-optimise-call-expression

6.24.1 6.24.1

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1.377 sprintf-js 1.1.0 1.1.0

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1.378 array-each 1.0.1 1.0.1

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1.379 jsreport-public-templates 2.0.1 2.0.1

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1.380 babel-runtime 6.26.0 6.26.0

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1.381 merge-descriptors 1.0.1 1.0.1

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1.382 split 0.3.3 0.3.3
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1.383 async 1.0.0 1.0.0
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1.384 es6-promise 4.2.8 4.2.8

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1.385 libjpeg 6b

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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
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1778 McCarthy Blvd.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.386 normalize-package-data 2.4.0 2.4.0

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-

jar/com/google/common/base/SmallCharMatcher.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/hash/LongAdder.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
* *
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.</b></pre>
*/

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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collect/ObjectArrays.java
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  * /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collection/BaseImmutableMultimap.java  
  * /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collection/IndexedImmutableSet.java  
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/CommonPattern.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/PatternCompiler.java

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/hash/MacHashFunction.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
ar/jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
ar/jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
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ar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/HashBasedTable.java

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
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 */

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  jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/GeneralRange.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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  jar/com/google/common/collection/RangeSet.java
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  jar/com/google/common/collection/SortedIterables.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Interners.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/Charsets.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/EnumMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
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/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/GraphConstants.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/DirectedGraphConnections.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/MultiEdgesConnecting.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/AbstractValueGraph.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ConfigurableMutableValueGraph.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ConfigurableMutableNetwork.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/NetworkConnections.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/EndpointPair.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/AbstractGraph.java
/opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
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jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ElementOrder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/AbstractNetwork.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/Comparators.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/GraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ConfigurableNetwork.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/NetworkBuilder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/GraphConnections.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/MapIteratorCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/MutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/EdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/RangeGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/EndpointPairIterator.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/graph/ValueGraph.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/hash/HashCode.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/hash/AbstractHasher.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/BoundType.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/net/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/LoadingCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/ForwardingCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/Queues.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/AbstractCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/RemovalListener.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/base/Present.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/math/BigIntegerMath.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/CacheStats.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/cache/Weigher.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/net/MediaType.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/PairwiseEquivalence.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/FunctionalEquivalence.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/ForwardingLoadingCache.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/TreeRangeSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/RegularImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/Enums.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/hash/HashFunction.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/RemovalNotification.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/DoubleMath.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/hash/Hashing.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/primitives/UnsignedLong.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/DoubleUtils.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/primitives/UnsignedLongs.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/hash/HashingOutputStream.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/CacheLoader.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/RemovalNotification.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/primitives/DescendingImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/LongMath.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/RemovalListeners.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/InterfaceMethods.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/Checkin.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/math/LinInterpolation.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/cache/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collect/CartesianList.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/Stats.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/math/Stats.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/reflect/Parameter.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/base/StandardSystemProperty.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/io/CharSink.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/hash/LongAddables.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/hash/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/io/ByteSink.java

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 */
/**
 * Outer class that exists solely to let us write [@code PartiallyGwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * We can’t use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn’t recognize

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* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/cache/CacheBuilder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/net/UrlEscapers.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/base/Platform.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/io/ByteProcessor.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/Cut.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/cache/LocalCache.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/escape/Escapers.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/Service.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/IgnoreCaseFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/IgnoreCaseFluentFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/primitives/SignedNumbers.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1.jar/com/google/common/util/concurrent/AbstractService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/annotations/GwtCompatible.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/cache/ReferenceEntry.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/io/ByteArrayDataInput.java

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/SortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/SortedMultisets.java

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  jar/com/google/common/reflect/Reflection.java
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/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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  jar/com/google/common/util/concurrent/MoreExecutors.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/eventbus/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/MoreObjects.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java
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  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ArrayTable.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ForwardingTable.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableAsList.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ComputationException.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/DiscreteDomain.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/RegularImmutableSortedSet.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableSortedMap.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableSortedSetFauxreverseShim.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/SingletonImmutableTable.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/EmptyImmutableSetMultimap.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableSetMultimap.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/RegularImmutableList.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableEnumSet.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/AbstractIndexedListIterator.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ComparisonChain.java
  */opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
  jar/com/google/common/collection/ImmutableClassToInstanceMap.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
jar/com/google/common/hash/ImmutableSupplier.java
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/**
* Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/net/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collect/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/Monitor.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/Strings.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/util/concurrent/Atomics.java

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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/LinkedListMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ForwardingList.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Iterables.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ListMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Maps.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/AbstractListMultimap.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/NullsLastOrdering.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Lists.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Interner.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/TreeMultimap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/Synchronized.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/AbstractMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ForwardingMap.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ImmutableList.java
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* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1072871384_1595214797.28/0/guava-28-1-android-sources-1-jar/com/google/common/collection/ComparatorOrdering.java
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4

* created on: 2005jan16
* created by: Markus W. Scherer

* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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

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<!--[if !IE]>
<?xml version="1.0"?>
<![endif]-->


"?>
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by <code>char32At()</code>. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>b</b>old font" has range (4, 8) replaced with "strong", then it becomes "the <b>s</b>trong font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset <var>start</var>.<var>limit-1</var>. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. <var>start</var> == 0), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0
<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not
intended for general use. Most clients will need to implement
[@link Replaceable] in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0
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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.435 bluebird 3.5.3 3.5.3

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1.436 ignite-core 2.7.0

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1.442 pixman 0.33.6 1

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1.455 swagger-annotations 1.5.16

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * 
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The name of the license.
     *
     * @return the name of the license
     */
}
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";

---

**1.456 json-stringify-safe 5.0.1 5.0.1**

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**1.457 browserslist 3.2.8 3.2.8**

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1.458 winston-transport 3.0.1 3.0.1
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1.459 query-string 4.3.4 4.3.4
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1.460 typetools 0.5.0

1.461 yargs 3.32.0 3.32.0

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1.462 install 0.12.2 0.12.2
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1.464 set-value 2.0.1 2.0.1
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1.465 babel-register 6.26.0 6.26.0

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.470 buffer-crc32 0.2.13 0.2.13

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1.471 deep-equal 0.2.2 0.2.2

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1.472 debug 4.1.1 4.1.1

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1.473 ignore-walk 3.0.1 3.0.1

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1.476 method-override 2.3.10 2.3.10

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1.483 require-directory 2.1.1 2.1.1

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1.484 blob 0.0.4 0.0.4

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  jar/io.netty.handler.codec.http/CombinedHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
  jar/io.netty.handler.codec.http/cookie/ClientCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
  jar/io.netty.handler.codec.http/cookie/CookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
  jar/io.netty.handler.codec.http/EmptyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
  jar/io.netty.handler.codec.http/cookie/CookieHeaderNames.java
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  jar/io.netty.handler.codec/rtsp/RtspDecoder.java
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* /opt/ws_local/PERMITS_SQL/1072871240_1595214773.59/0/netty-codec-http-4-1-42-final-sources-1-
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<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk＠#064gmail.com&amp;gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch＠#064maxence.de&amp;gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix＠#064credit-suisse.com&amp;gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee＠#064crossroads.com&amp;gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5＠#064embody.org&amp;gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung＠#064hotmail.com&amp;gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz＠#064gmail.com&amp;gt; - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee &lt;dmlee@Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>

Joel Rees &lt;rees@#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

Francesc Sau &lt;francesc.sau@#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>

Larry Bugbee &lt;bugbee@#064mac.com&gt; - initial ECNR implementation.</li>

Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>

Brian O'Rourke &lt;bianorourke@#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>

Andreas Schwier &lt;andreas.schwier@#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

David Josse &lt;david.josse@#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>

Kishimoto Kazuhiko &lt;kazu-k@#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>

Lawrence Tan &lt;lwrnctan@#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>

Carlos Valiente &lt;superdupont@#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>

Olaf Keller, &lt;olaf.keller.bc@#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>

J&ouml;rg Eichhorn &lt;eichhorn@#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

Karsten Ohme &lt;widerstand@#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliant for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>

Carlos Lozano Ruiz &lt;carlos@#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>

John Alfred Prufrock &lt;j.a.prufrock@#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

Stefan Neusatz Guilhen &lt;Sneusatz@gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

Marzio Lo Giudice &lt;marzio.logiudice@#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
<li>Georg Lippold &lt;georg.lippold#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles &lt;chris_viles#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen &lt;pasi.eronen#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;maria.ivanova#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;berling &lt;arminha#student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;m.schilder#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vouch &lt;xavier#064brittanysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;reikomusha#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rojaquim#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies#064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g#064rtner.de&gt; - GnuPG compatibility changes for PBFileProcessor.</li>
<li>Olga K&amp;uuml;ther &lt;olga.kaethler#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uuml;ria Mar#064hotmail.com&gt; - patch for alternate data type recognition in CMSDataParser.</li>
<li>Janis Schuller &lt;js#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;stjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff#064ukr.net&gt; - mask fix to single byte read in TLSInputStream.</li>
<li>Julien Pasquier &lt;arnspasquier#064freetech.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp#064mgt.de&gt; - fix for named curve recognition in ECGOST key generation.
Jakub Gwozdz &lt;gwozdziu&#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz&#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini&#064hotmail.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck&#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd&#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificateRequest [#BJA-102].

Michael Schoene &lt;michael&#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra&#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns&#064positscience.com&gt; fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ru@04po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic&#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz&#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Ciric &lt;cagdasciric&#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri23&#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henrique &lt;pmahenriques&#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer &lt;job&#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.

Richard Farr &lt;rfarr.se&#064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione&#064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani&#064sogei.it&gt; - patch for recognising multiple counter signatures.
Robin Lundgren &lt;rt737lundgren#064gmail.com&gt;: CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil#064centrum.cz&gt;: fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a#064gmx.ch&gt;: fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat#064yahoo.com&gt;: fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindeumann#064trustcenter.de&gt;: patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home#064gmail.com&gt;: name lookup patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons#064layer7tech.com&gt;: work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole#064yahoo.com&gt;: identified a problem handling null passwords when loading a BKS keystore.

Robin Lundgren &lt;robinlundgren#064gmail.com&gt;: CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil#064centrum.cz&gt;: fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a#064gmx.ch&gt;: fix to buffer reset in AsymmetricBufferedBlockCipher.

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Chris Cole &lt;chris_h_cole#064yahoo.com&gt;: identified a problem handling null passwords when loading a BKS keystore.
<li>Atanas Krachev &lt;akrachev@#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking@#064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;rbernd@#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@#064tnctech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov &lt;p.petrov@#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for JES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vz2Lvd2EUVW99v3yNV31WROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny@#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b@#064yahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel@#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad@#064primekey.se&gt; patch for working arround JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin@#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;t5555d@#064gmail.com&gt; initial cut of DVCS classes.
<li>Damian Kolasa &lt;fatfredyy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;daniel.hirscher#064gmail.com&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.ricci#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, Java Improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
<li>Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;lter &lt;eric.muller#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;anis#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;&gt; further work on completing grade build.</li>
<li>Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts#064riskure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li> Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaeff &lt;https://github.com/martinschaeff&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich#064ecsec.de&gt; Provided patch for TLS to work around servers sending
Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke@#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz@#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza@#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Ekund &lt;johan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Hauke Mehrtens &lt;hauke@hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz@galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
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<li>Johan Ekund &lt;johan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
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<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
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<li>Johan Ekund &lt;johan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Hauke Mehrtens &lt;hauke@hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

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Open Source Used in DNAC Platform Cyclops 1238
Justin Ludwig &lt;https://github.com/justinludwig&gt;: Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Andrzejacutere Berenguel &lt;https://github.com/aberenguel&gt;: Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaransowski &lt;https://github.com/slawekjaranowski&gt;: Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt;: Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77@gmail.com&gt;: Fixed bug in Poly1305 [#BJA-620].

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<li>Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>
<li>Armin Lunke, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Scott Woodward &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier@064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Lutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JOSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt;; Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumiESEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer@064truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to
THausherr: Addition generic support for CMS/TSP functions.
Gaylor Bosson: Initial implementation of Blake2xs.
gaellaire: Patch for unprotected PGP private keys as SExpr.
im-scooter: Patch for case-insensitive behaviour of Param-Z.
Nick hitchan: Fix for typo in engineInitSign() in EdEc SignatureSpi.
dbusche: Argon2 optimisations.
Daniel Heldt: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
Ugochukwu Mmaduekwe: Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
Gsealy: addition of PBKDF2withHmacSM3 to the provider.
aphuang2013: update to path validation in EST service for ClearPath EST.
Kevin Herron: Initial ChaCha20Poly1305 prototype.
vkreml: GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
Tobias Ospelt: Identification of 1.63 regression in ASN.1 parsing.

1.512 netty 4.1.42.Final

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<li>Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
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<li>Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
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Kazuwo Furuya &lt;kfuru@infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

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Joel Hockey &lt;joel.hockey@4064;qisipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;johnS@4064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@chapweske.com&gt; - ordering patch for Tiger message digest.

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<li>Jarek Gawor &lt;jgawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor./li>
<li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64./li>
<li>Graham Coles &lt;graham.coles&#064;606;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec./li>
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<li>Bryan Lovquist &lt;bklk&#064;606;cp5.com.au&gt; - Other provider compatibility fixes for CMS signing./li>
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<li>Johan Seland &lt;jhans&#064;netfonds.no&gt; - general toString for BigInteger class./li>
<li>Johannes Nicolai &lt;johannes.nicolai&#064;606;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer./li>
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<li>Chris Long &lt;aclong&#064;606;ece.cmu.edu&gt; - adding public key decoding to PEMReader./li>
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<li>Jiri Urbanec &lt;jiri.urbanec&#064;606;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals()./li>
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<li>Michal Dvorak &lt;M_Dvorak&#064;kb.cz&gt; - getNextUpdate patch for OCSP SingleResp./li>
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<li>Ian Haywood &lt;ian@64haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature. </li>
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<li>Andrew Thornton &lt;andrew@64caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader. </li>
<li>Gregor Leander &lt;gl@64bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name. </li>
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<li>W.R. Dittmer &lt;vd dittmer@64cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception. </li>
<li>Perez Paz Luis Alberto &lt;laperez@64banxico.org.mx&gt; - patch to use of BitString in X.500 name. </li>
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<li>Alpesh Parmar &lt;alps@64linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures(). </li>
<li>Jay Gengelbach &lt;gengelbach@64webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output. </li>
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<li>Breitenstrom Christian &lt;c.Breitenstrom@64t-systems.com&gt; - compatibility patch to SignaturePacket,
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<li>Zanotti Mirko &lt;zanotti@#064cad.it&gt; - patch to ordered equality test for X509Name. </li>
<li>Nicola Scendoni &lt;nscendoni@#064bavvis.it&gt; - patch to add sorting to CertPath validation. </li>
<li>Ville Skytt&auml;&lt;ville.skytta@#064iki.fi&gt; - patch to CRLDistPoint for cRILissuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up. </li>
<li>Bruce Gordon &lt;bruce.gordon@#064savvis.net&gt; - patch to secret key creation encoding NullPointerExcepton in OpenPGP, speed up for BCPGInputStream. </li>
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<li>Carlos Lozano &lt;carlos@#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS. </li>
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes. </li>
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<li>Franck Leroy &lt;Franck.Leroy@#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack. </li>
<li>Atsuhiko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters. </li>
<li>Nickolay Bolshakov &lt;tyrex@#064rekssoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class. </li>
<li>Soren Hilmer &lt;soren.hilmer@#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing. </li>
<li>Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly. </li>
<li>Dirk Eisner &lt;D.Eisner@#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding. </li>
<li>Julien Pasquier &lt; julienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class. </li>
<li>Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump. </li>
<li>Andrew Paterson &lt;andrew.paterson@#064burnseccom.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey. </li>
<li>Vladimir Molotkov &lt;vladimir.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing. </li>
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<li>Tom Pesman &lt;tom@#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter. </li>
<li>Luukas Kowalczyk &lt;luukas.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests. </li>
<li>Arndt Hasch &lt;Arndt.Hasch@#064maxence.de&gt; - additional fix for partial reading with new style PGP
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David M. Lee &lt;dmlee@crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@604embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

Fix for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@604gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@604ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@604partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@604mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@604keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@604gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@604cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESeDe-CMAC to JCE provider.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@604hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrmctan@604gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@604gmail.com&gt; - Addition of CRL writing to the PEMWritter class.

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J&ouml;rg Eichhorn &lt;eichhorn@604ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@604t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CerticatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouchar &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rojoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBESFileProcessor.

Olga K&auml;thler &lt;olga.kaehtler@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;uuml;ria Mar&iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recoginition in CMSSignedDataParser.

Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider
support in CMS.</li><li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li><li>Ramon Keller &lt;ramon.keller@064gm.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li><li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li><li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li><li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li><li>Peter Knopp &lt;pknopp@064msg.de&gt; - fix for named curve recognition in ECOST key generation.</li><li>Jakub Gwozdz &lt;gwozdziu@064rgp.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li><li>Bartosz Malkowski &lt;bmalkow@064itgase.org&gt; - initial implementation of VMPC cipher, VMPCRandonGenerator, VMPCM.</li><li>Tal Yacobi &lt;tal.yacobi@octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li><li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li><li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li><li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li><li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li><li>Gabriele Contini &lt;gicontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDFE's.</li><li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li><li>Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li><li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li><li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li><li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li><li>袒 Oak &lt;itarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li><li>Bob Kerns &lt;bob.kerns@064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li><li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li><li>Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li><li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li><li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li><li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li><li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
<li>Henrik Andersson (&lt;k.henrik.andersson@#064gmail.com&gt;) – addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit (&lt;cagdascirit@#064gmail.com&gt;) – subjectAlternativeName fix for x.509CertStoreSelector.</li>
<li>Harakiri (&lt;harakiri_23@#064yahoo.com&gt;) – datathandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques (&lt;pmahenriques@#064gmail.com&gt;) – explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer (&lt;job@#064kimmeringer.de&gt;) – verbose mode for ASN1Dump, support for DEREternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr (&lt;farr.se@#064gmail.com&gt;) – initial SRP-6a implementation.</li>
<li>Thomas Castiglione (&lt;castiglione@#064au.ibm.com&gt;) – patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani (&lt;eromani@#064sogei.it&gt;) – patch for recognising multiple counter signatures.</li>
<li>Rolf Lindemann (&lt;roflindemann@#064trustcenter.de&gt;) – patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov (&lt;alexart.home@#064gmail.com&gt;) – name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons (&lt;mlyons@#064layer7tech.com&gt;) – work arounds for EC JDK bug 6738532 and JSE EC naming conventions.</li>
<li>Chris Cole (&lt;chris_h_cole@#064yahoo.com&gt;) – identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Alex Artamonov (&lt;alexart.home@#064gmail.com&gt;) – added checking of Sender header to SignedMailValidator.</li>
<li>Michael (&lt;emfau@#064t-online.de&gt;) – correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin (&lt;trevor@#064cryptography.com&gt;) – addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilaring &lt;markus@#064primekey.se&gt; – several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic (&lt;darionis@#064yahoo.com&gt;) – fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith (&lt;msmith@#064cbnco.com&gt;) – bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio (&lt;andrea.zilio@#064yahoo.com&gt;) – fix for PEM password encryption of private keys.</li>
<li>Alex Birkett (&lt;alex@#064birkett.co.uk&gt;) – added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant (&lt;waynedgrant@#064gmail.com&gt;) – additional OIDs for PKCS10 and certificate generation support.</li>
<li>Frank Cornelis (&lt;info@#064frankcornelis.be&gt;) – additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Diettherner (&lt;jan@#064ditttherner.info&gt;) – addHeader patch for SMIME generator.</li>
<li>Bob McGowan (&lt;boab.mcgoo@#064btinternet.com&gt;) – patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis (&lt;i.matheis@#064seeburger.de&gt;) – fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini (&lt;nessche@#064gmail.com&gt;) – patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf (&lt;alfilmalf@#064hotmail.com&gt;) – removal of unnecessary limit in CMSContentInfoParser.
<li>Alfonso Massa &lt;alfonso.massa@insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKexRing.</li>
<li>Atanas Krachev &lt;akrachev@gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;rbernd@gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj@gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vz12Lvd2EUVW99v3yNV3IWRG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kennythe-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes@gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b@064gyahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel@064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington@064onionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha,
reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;tt555d@064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGP SecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGP SignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio@metrics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Müller &lt;eric.mueller@sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniei Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86@064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;g soc.student@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@064cryptovision.com&gt; Initial support for encodable state message
digests</li>
<li>Robert Bushman &lt;bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts&#0644riscom.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Frantzius Kiefer &lt;https://github.com/frantziuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tohias.wich&#06464ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrten &lt;hauke&#06464hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza&#064064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan&#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>Jens Kapitza &lt;jt.kapitza#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Michael &lt;MSKnete#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle&#064lxtreme.nl&gt; Support for DSAParameters in
lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC. &lt;/li&gt;
&lt;li&gt;Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies. &lt;/li&gt;
&lt;li&gt;Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore. &lt;/li&gt;
&lt;li&gt;Sebastian Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption. &lt;/li&gt;
&lt;li&gt;Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES. &lt;/li&gt;
&lt;li&gt;akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys. &lt;/li&gt;
&lt;li&gt;Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes. &lt;/li&gt;
&lt;li&gt;Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies. &lt;/li&gt;
&lt;li&gt;Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore. &lt;/li&gt;
&lt;li&gt;Sebastian Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption. &lt;/li&gt;
&lt;li&gt;Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES. &lt;/li&gt;
&lt;li&gt;akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys. &lt;/li&gt;
&lt;li&gt;Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes. &lt;/li&gt;
&lt;li&gt;Luukas Deupat &lt;luukas.deupat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592]. &lt;/li&gt;
&lt;li&gt;Justin Ludwieg &lt;https://github.com/justinludwieg&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data. &lt;/li&gt;
&lt;li&gt;Andr&egrave;eacutete; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpec. &lt;/li&gt;
&lt;li&gt;Slawomir Jarjanowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public. &lt;/li&gt;
&lt;li&gt;Andrej Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012. &lt;/li&gt;
&lt;li&gt;William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620]. &lt;/li&gt;
&lt;li&gt;jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache. &lt;/li&gt;
&lt;li&gt;Joseph Naegle &lt;jnaegle@#064gierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry. &lt;/li&gt;
&lt;li&gt;Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNaFUtil. &lt;/li&gt;
&lt;li&gt;The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider. &lt;/li&gt;
&lt;li&gt;Gorka Irazoiqi &lt;girazoki@#064wp.i.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing. &lt;/li&gt;
&lt;li&gt;Joerg Senekowitsch &lt;joerg.senekowitsch@#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey. &lt;/li&gt;
&lt;li&gt;Alexandr Krivosht &lt;wipe@#064ya.ru&gt; N4 calculation fix to GOFB mode. &lt;/li&gt;
&lt;li&gt;Artem Storozhuk &lt;storois72@#064gmail.com&gt; N4 calculation fix to GOFB mode. &lt;/li&gt;
&lt;li&gt;Na Yu &lt;na.yu@#064samsung.com&gt; Constructor patches to CMC PKIData. &lt;/li&gt;
&lt;li&gt;Evangelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class. &lt;/li&gt;
&lt;li&gt;VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters. &lt;/li&gt;
&lt;li&gt;mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator. &lt;/li&gt;
&lt;li&gt;Anders Schack-Mulligen &lt;https://github.com/ashackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator. &lt;/li&gt;
&lt;li&gt;Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation. &lt;/li&gt;
&lt;li&gt;didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids. &lt;/li&gt;
&lt;li&gt;Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint. &lt;/li&gt;
&lt;li&gt;Artem Storozhuk &lt;storois72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and
DSTU7624 (cipher) and their associated modes.

- Andreas Glaser &lt;andreas.glaser@#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.
- codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGO-2012.
- FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.
- 4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.
- eksszz &lt;https://github.com/eksszz&gt; corrections to SM2 signer to include default identity value.
- jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.
- str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.
- Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.
- David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYP'T bounds checking.
- chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
- ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
- Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().
- Armin Lunkeit, Michael Tautenhahn &lt;andreas.glaser@#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.
- Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.
- Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
- Bernd &lt;https://github.com/bernd&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
- Shurtung &lt;https://github.com/shurtung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.
- Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserId() into line with PGPPublicKey.getUserId(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
- Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.
- catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.
- fgrieu &lt;fgrieu@fgrieu.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier &lt;andreas.glaser@#064gi-de.com&gt; initial version of Argon2 PBKDF algorithm.
- Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
- Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.
Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gillis95 &lt;https://github.com/Gillis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palmæcarter, TrueSec &lt;Henrik.Palmer&#064truesec.se&gt; Additional improvements to constant time comparisons.

Renæcute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaelllalire &lt;https://github.com/gaelllalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.

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1.539 stream-shift 1.0.0

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1.572 at-spi2-core 2.18.3-4ubuntu1

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1.577 regenerator-runtime 0.13.5 0.13.5

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1.578 woodstox-core 5.3.0

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1.610 intl-format-cache 2.2.9 2.2.9

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1.614 engine.io-parser 2.1.3 2.1.3

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1.615 path-type 2.0.0 2.0.0

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1.616 atk 2.18.0-1

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1.617 fast-deep-equal 2.0.1 2.0.1

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1.618 rimraf 2.4.5 2.4.5
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1.622 string_decoder 1.1.1 1.1.1
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1.623 websocket-server 9.3.27.v20190418

1.624 popperjs 1.16.1 1.16.1
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

val x: ((Int, Int) => Int) = (((a, b)) => a)

^ not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

^ not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^ three errors found

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1.628 jsprim 1.4.1 1.4.1

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1.629 mchange-commons-java 0.2.15

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1.630 common-prefix 1.1.0 1.1.0

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

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

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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
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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.)

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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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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

```java
packV1License($
(*this*Lclover/com/atlassian/license/LicensePair;([B][Ljava/lang/String;)VtextoriginalStringLjava/lang/String;isNGZ<init>([B][B)V-clover/com/atlassian/license/LicenseException()V
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=clover/com/atlassian/extras/decoder/v2/Version2LicenseDecoder!packLicense([B][Ljava/lang/String;#$
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*clover/com/atlassian/license/LicensePair;([B][Ljava/lang/String;)]genlicense(VtextoriginalStringLjava/lang/String;isNGZ<init>([B][B)V-clover/com/atlassian/license/LicenseException()V

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startsWith([B][B)Z
=clover/com/atlassian/extras/decoder/v1/Version1LicenseDecoder!packLicense([B][Ljava/lang/String;#$

```

The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

```java
packV1License($
(*this*Lclover/com/atlassian/license/LicensePair;([B][Ljava/lang/String;)VtextoriginalStringLjava/lang/String;isNGZ<init>([B][B)V-clover/com/atlassian/license/LicenseException()V
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readInt
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licenseContent
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SourceFile!
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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.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework
<http://mootools.net/license.txt>.

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Nicolas Garcia Belmonte

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10<9clover/com/atlassian/extras/common/util/LicenseProperties>getProperty8(Ljava/lang/String;Ljava/lang/String;)Ljava/lang/String;@A?Bjava/lang/IntegerD'(Ljava/lang/String;)Ljava/lang/Integer;:F

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16getCreateDate(Ljava/lang/String;Ljava/util/Date;Ljava/util/Date;?)#$PurchaseDate%$

17LicenseExpiryDateDEFAULT_EXPIRY_DATE$

18getGracePeriodEndDate(Lclover/com/atlassian/extras/common/util/LicenseProperties;Ljava/util/Date;Ljava/util/Date;Ljava/util/D
isExpired
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Modified by Atlassian
The binary file of the original library has been modified by Atlassian in such way that classes have changed
their package names from 'com.keypoint/org.jfree' to 'clover.com.keypoint/clover.org.jfree'. This was
necessary to avoid potential name conflicts during instrumentation of a code using the original library when
using Clover. No source code of the original library was modified.

==================================================================
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Version 2.1, February 1999

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Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures


Author:

Nicolas Garcia Belmonte

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1.1.2

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Bamboo Basic: Developer
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There is no License Configuration defined for the application

If error(Ljava/lang/Object;)V -clover/com/atlassian/license/LicenseRegistrygetLicenseMessageXgetLicenseHash

There is no license string or hash defined for the application

info~(clover/com/atlassian/license/LicensePair'(Ljava/lang/String;Ljava/lang/String;)V

Could not build a license

pair*(Ljava/lang/Object;Ljava/lang/Throwable;:)V}3clover/com/atlassian/license/decoder/LicenseDecoderd(Lclover
com/atlassian/license/LicensePair;Ljava/lang/String;Lclover/com/atlassian/license/License;:a

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The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.common' to 'clover.com.google.common'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name
conflicts during instrumentation of a code using the original library when using Clover. No source code of
the original library was modified.

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Modified by Atlassian

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their package name from 'org.apache.commons' to 'clover.org.apache.commons'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
No source code of the original library was modified.
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```
0Z4clover/com/atlassian/license/AbstractLicenseRegistry.java<init>()V
```

```
this6Lclover/com/atlassian/license/AbstractLicenseRegistry:getAllLicenseTypes(Ljava/util/Collection;):Lclover/com/atlassian/license/LicenseType;"clover/com/atlassian/license/LicenseException java/util/Collection:iterator():Ljava/util/Iterator;java/util/Iterator:hasNext()Z
next():Lclover/com/atlassian/license/LicenseType;&getReference()Ljava/lang/String;:*"java/lang/String,toLowerCase.)
```

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6The license type (8append,(Ljava/lang/String;)Ljava/lang/StringBuffer;:; 6<) specified is invalid.>toString@)
6A(Ljava/lang/String;)VC
```

```
DlicenseType*Lclover/com/atlassian/license/LicenseType;licenseTypeDescLjava/lang/String;Ljava/util/Iterator;type-(I)Lclover/com/atlassian/license/LicenseType;getType()IMN'O(I)Ljava/lang/StringBuffer;:Q
```

```
RICodeLocalVariableTableLineNumberTable
```

Exceptions
SourceFile!U/*V

```
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ZKIW(57:XLUL*M,!*,%'N-P-Y6Y79=S?=BEV*FG "JL
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SourceFile
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### 1.635 pause 0.0.1 0.0.1

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### 1.636 minimist 1.2.5 1.2.5

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1.637 jsreport 2.3.0 2.3.0

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configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswrresample/tests/swresample.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
- `vf_eq.c`
- `vf_find_rect.c`
- `vf_fspp.c`
- `vf_geq.c`
- `vf_histrad3d.c`
- `vf_hqdn3d.c`
- `vf_kerndeint.c`
- `vf_lensfun.c` (GPL version 3 or later)
- `vf_mddeint.c`
- `vf_mpdecimate.c`
- `vf_mnedi.c`
- `vf_owdenoise.c`
- `vf_perspective.c`
- `vf_phase.c`
- `vf_pp.c`
- `vf_pp7.c`
- `vf_pullup.c`
- `vf_repeatfields.c`
- `vf_sab.c`
- `vf_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes
affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedtls, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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Doug Kwan <doukgwan@google.com>
Dmitriy Vyukov <dvyukov@google.com>
John Milliken <jmilliken@gmail.com>
Mike Nazarewicz <mpn@google.com>
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3.1.0 / 2017-09-26

* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in %o formatter (#504)
* Remove "component" from package.json
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)
* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08

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* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update: refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22

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* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18

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* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16

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* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27

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* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20

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* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier" error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28

* Fix: added better null pointer checks for browser useColors (@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20

* Fix: babel-core compatibility

2.5.0 / 2016-12-20

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378, @yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==================

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintained `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==================

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==================

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
==================

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13
==================

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13
==================

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect() options for NodeJS (#327, @tootallnate)
* Feature: %O (big O) pretty-prints objects (#322, @tootallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)
2.3.3 / 2016-11-09
=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*=*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* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==================

* Updated stdout/stderr example (#186)
* Updated example/stdout.js to match debug current behaviour
* Renamed example/stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
=================

* dist: recompile
* update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
=================

* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
=================

* node: implement `DEBUG_FD` env variable support
* package: update "browserify" to v6.1.0
* package: add "license" field to package.json (#135, @panuhorsmalahiti)

2.0.0 / 2014-09-01
=================

* package: update "browserify" to v5.11.0
* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
=================
* dist: recompile
* example: remove `console.info()` log usage
* example: add "Content-Type" UTF-8 header to browser example
* browser: place `%e` marker after the space character
* browser: reset the "content" color via `color: inherit`
* browser: add colors support for Firefox >= v31
* debug: prefer an instance `log()` function over the global one (#119)
* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==================

* Add support for multiple wildcards in namespaces (#122, @seegno)
* browser: fix lint

1.0.2 / 2014-06-10
==================

* browser: update color palette (#113, @gscottolson)
* common: make console logging function configurable (#108, @timoxley)
* node: fix `%o` colors on old node <= 0.8.x
* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==================

* browser: use `removeItem()` to clear localStorage
* browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
* package: add "contributors" section
* node: fix comment typo
* README: list authors

1.0.0 / 2014-06-04
==================

* make ms diff be global, not be scope
* debug: ignore empty strings in enable()
* node: make DEBUG_COLORS able to disable coloring
* *: export the `colors` array
* npmignore: don't publish the `dist` dir
* Makefile: refactor to use browserify
* package: add "browserify" as a dev dependency
* Readme: add Web Inspector Colors section
* node: reset terminal color for the debug content
* node: map `%o` to `util.inspect()`
* browser: map `%j` to `JSON.stringify()`
* debug: add custom "formatters"
* debug: use "ms" module for humanizing the diff
* Readme: add "bash" syntax highlighting
* browser: add Firebug color support
* browser: add colors for WebKit browsers
* node: apply log to `console`
* rewrite: abstract common logic for Node & browsers
* add .jshintrc file

0.8.1 / 2014-04-14
==================
* package: re-add the "component" section

0.8.0 / 2014-03-30
==================
* add `enable()` method for nodejs. Closes #27
* change from stderr to stdout
* remove unnecessary index.js file

0.7.4 / 2013-11-13
==================
* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==================
* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==================
* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==================
* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==================
* Added .component to package.json
* Added debug.component.js build

0.6.0 / 2012-03-16
==================

* Added support for ":" prefix in DEBUG [Vinay Pulim]
* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==================

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==================

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==================

* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==================

* Added wildcard support

0.1.0 / 2011-12-02
==================

* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==================

* Initial release
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“Taxes” shall have the meaning set forth in Section 10.5.

“Term” shall have the meaning set forth in Section 12.

"The Qt Company" shall mean:
(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or
(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

“Third-Party Software” shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP
2.1. Ownership of The Qt Company
The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All of The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively.

2.2. Ownership of Licensee
All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.
All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

2.3. Modified Software
Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

Licensee may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion.

3. LICENSES GRANTED
3.1. Development with Licensed Software
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the License Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to end-user Customers.

Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and
until either Party notifies the other Party in writing that it does not wish to continue the License Term, such notification to be provided to the other Party no less than ninety (90) days before expiry of the respective License Term. Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company’s standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective quote from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company’s respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10%) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than ninety (90) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

3.2. Distribution of Applications
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to
(i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and
(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer’s internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the
3.3. Distribution of Devices
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

3.4. Further Requirements
The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;

(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such
right may be available for the Licensee subject to a separate
software development kit ("SDK") license agreement to be concluded
with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies
of the Redistributables except when and to the extent required to
use the Applications and/or Devices for their intended purpose,
(ii) modify the Redistributables or create derivative works
thereof, (iii) decompile, disassemble or otherwise reverse
engineer Redistributables, or (iv) redistribute any copy or
portion of the Redistributables to any third party, except as part
of the onward sale of the Device on which the Redistributables are
installed;

(viii) Licensee shall not and shall cause that its Affiliates or
Contractors shall not use Licensed Software in any Prohibited
Combination, unless Licensee has received an advance written
permission from The Qt Company to do so. Absent such written
permission, any and all distribution by the Licensee during the
Term of a hardware device or product a) which incorporate or
integrate any part of Licensed Software or Open Source Qt; or b)
where the main user interface or substantial functionality is
provided by software built with Licensed Software or Open Source
Qt or otherwise depends on the Licensed Software or Open Source
Qt, shall be considered to be Device distribution under this
Agreement and shall be dependent on Licensee's compliance thereof
(including but not limited to obligation to pay applicable License
Fees for such distribution). Notwithstanding what is provided
above in this sub-section (viii), Licensee is entitled to use and
combine Qt 3D Studio and/or Qt Design Studio with Open Source Qt
("Permitted Combination") for its internal evaluation purposes,
provided that Licensee shall in no way transfer, publish, disclose,
display or otherwise make available any software or work resulting
from such Permitted Combination;

(ix) Licensee shall cause all of its Affiliates and Contractors
entitled to make use of the licenses granted under this Agreement,
to be contractually bound to comply with the relevant terms of
this Agreement and not to use the Licensed Software beyond the
terms hereof and for any purposes other than operating within the
scope of their services for Licensee. Licensee shall be responsible
for any and all actions and omissions of its Affiliates and
Contractors relating to the Licensed Software and use thereof
(including but not limited to payment of all applicable License
Fees);

(x) Except when and to the extent explicitly provided in this Section
3, Licensee shall not transfer, publish, disclose, display or
otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or
attempt to conduct any of the above.
Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.
Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the "/../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability
for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY
7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES
Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion,
Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY
Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade
secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT
10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid
balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company’s Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without...
limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section, then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in
Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above
or pursuant to Section 12.2, then the Licensee is entitled, for a
period of six (6) months after the effective date of termination,
to continue distribution of Devices under the Distribution Licenses
paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt
Company all copies of the Licensed Software and all related materials and will
certify the same to The Qt Company upon its request, provided however that
Licensee may retain and exploit such copies of the Licensed Software as it may
reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not
relieve Licensee of its obligation to pay any License Fees accrued or payable
to The Qt Company prior to the effective date of termination, and Licensee
shall immediately pay to The Qt Company all such fees upon the effective date
of termination. Termination of this Agreement shall not affect any rights of
Customers to continue use of Applications and Devices (and therein incorporated
Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable
decision by relevant court of law, and this Agreement is not, at the date of
expiry of the Development License(s) pursuant to Section 3.1, assigned to
party, who has assumed The Qt Company's position as a legitimate licensor of
Licensed Software under this Agreement, then all valid licenses possessed by
the Licensee at such date of expiry, and which the Licensee has not notified
for expiry, shall be extended to be valid in perpetuity under the terms of this
Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In the event this Agreement is in the name of The Qt Company Inc., a Delaware
Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance
with the laws of the State of California, USA, excluding its choice
of law provisions;

(ii) the United Nations Convention on Contracts for the International
Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to
this Agreement or the breach, termination, enforcement,
interpretation or validity thereof, including the determination of
the scope or applicability of this Agreement to arbitrate, shall
be determined by arbitration in San Francisco, USA, before one
arbitrator. The arbitration shall be administered by JAMS pursuant
to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on
the Award may be entered in any court having jurisdiction. This
Section shall not preclude parties from seeking provisional
remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS
14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersede all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.
In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company’s applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses
hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X'.
Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with ‘X’ in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with ‘R’ in the below table.
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All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP
The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.
Upon expiry of the Trial Term:
(a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that
(b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE
The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:
I. Recital (A) shall be replaced in its entirety to read as follows:
"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users may use the Licensed Software.

Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:
- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);

- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be
responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

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V. Section 12 shall be replaced in its entirety to read as follows:

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Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective notification from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than thirty (30) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

3.2. Distribution of Applications
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for
Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the time of distribution of any Redistributables to Customers.

3.3. Distribution of Devices
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

3.4. Further Requirements
The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;

(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers’
names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates and Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution).

Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Licensed Software with any Permitted Software;

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.
Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the "/../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this
Except as set forth above, the Licensed Software is licensed to Licensee “as is” and Licensee’s exclusive remedy and The Qt Company’s entire liability for errors in the Licensed Software shall be limited, at The Qt Company’s option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE’S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to
receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled
to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.
10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's
use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee’s place of business. Any such in-person audit shall be conducted during regular business hours at Licensee’s facilities and shall not unreasonably interfere with Licensee’s business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee’s Records and conduct necessary interviews of Licensee’s relevant employees and Contractors. All such Licensee’s Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company’s reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company’s written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately
upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties’ Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the
13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any
of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or
circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be
regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee’s License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with ‘X’ in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with ‘R’ in the below table.

+-----------------------------------------------------------------------+
| Modules / Tools                  | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
+-----------------------------------------------------------------------+
| Qt Core                          | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt GUI                           | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Multimedia                    | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Multimedia Widgets            | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Network                       | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt QML                           | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Quick                         | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Quick Controls 2              | X, R | X, R |       |       |      |
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<p>| Qt Quick Dialogs                 | X, R | X, R |       |       |      |</p>
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APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table.

Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

```plaintext
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|                     |                              Add-On Product(s)                           |
|                     +--------------------------------------------------------------------------+
| Modules / Tools of  |lashable                | Qt for     | Qt     | Qt     | Qt     | Qt     | Qt     | Qt     |
| Licensed Software  | Automation                | Automotive | Safe    | Application | GammaRay | Deployment |
|                     | / Qt M2M                 | Suite      | Renderer | Manager   | Platform |          |
|                     | Protocols                |            |          |          | Package  |          |
+------------------------------------------------------------------------------------------------+
| Qt MQTT             | X, R                     |            |          |          |          |          |
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| Qt KNX              | X, R                     |            |          |          |          |          |
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| Qt OPC UA           | X, R                     |            |          |          |          |          |
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| Qt CoAP             | X, R                     |            |          |          |          |          |
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| Qt Safe Renderer    | X, R                     | X, R       |          |          |          |          |
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| Qt Application      | X, R                     | X, R       |          |          |          |          |
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Linus Torvalds

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### v4.0.1 (2016-12-14)

#### WHOOPS

* [fb9b1ce](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87771920f77ef6) Merged so many patches at once that the code fencing (@adius) added got broken. Sorry, (@adius)!
* [othiym23](https://github.com/othiym23)!

### v4.0.0 (2016-12-13)

#### BREAKING CHANGES

* [651d447](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa) When parsing String-typed arguments, if the next value is "", don't simply swallow it. (@samjonester)

#### PERFORMANCE TWEAKS

* [3370ce8](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84dcbdf252a9) Simplify initialization. (@elidoran)
* [356e58e](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09) Store `Array.isArray(types[arg])` for reuse. (@elidoran)
* [0d95e90](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e) Interpret single-item type arrays as a single type. (@samjonester)
* [07c69d3](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb50550becb78a0e925) Simplify key-value extraction. (@elidoran)
* [39b6e5c](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254) Only call `Date.parse(val)` once. (@elidoran)
* [934943d](https://github.com/npm/nopt/commit/934943ddfecb55123a2b15959fe2a359319a5dbd)
Use `osenv.home()` to find a user's home directory instead of assuming it's always `~`. ([@othiym23](https://github.com/othiym23))

#### TEST & CI IMPROVEMENTS

* [326ffff](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)
  Fix `/tmp` test to work on Windows. ([@elidoran](https://github.com/elidoran))
* [c89d31a](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)
  Only run Windows tests on Windows, only run Unix tests on a Unix. ([@elidoran](https://github.com/elidoran))
* [affd3d1](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)
  Refresh Travis to run the tests against the currently-supported batch of npm versions. ([@helio](https://github.com/helio)-frota)
* [55f9449](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4fb95cc440e66d)
  `tap@8.0.1` ([@othiym23](https://github.com/othiym23))

#### DOC TWEAKS

* [5271229](https://github.com/npm/nopt/commit/5271229ee7c810217dd51616c086f5d9ab224581)
  Use JavaScript code block for syntax highlighting. ([@adius](https://github.com/adius))
* [c0d156f](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfce4a8886ecf7a07682)
  The code sample in the README had `many2: [ oneThing ]`, and now it has `many2: [ two, things ]`. ([@silkentrance](https://github.com/silkentrance))

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Mesa 3-D graphics library
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language: node_js
node_js:
  - '0.12'
  - '4'
  - '6'
  - '7'
before_install:
- npm install -g npm@latest

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/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g711.h - In line A-law and u-law conversion routines
 *
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A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

## Installation

```
```bash
$ npm install debug
```bash

## Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```
```js
```bash
var debug = require('debug')('http')
  .http = require('http')
  .name = 'My App';

// fake app
debug('booting %o', name);

http.createServer(function(req, res){
    debug(req.method + ' ' + req.url);
    res.end('hello
');
}).listen(3000, function(){
    debug('listening');
});

// fake worker of some kind

require('./worker');
```
Example [_worker.js_](./examples/node/worker.js):
```
```
    ''
    var a = require('debug')('worker:a')
    , b = require('debug')('worker:b');

    function work() {
        a('doing lots of uninteresting work');
        setTimeout(work, Math.random() * 1000);
    }

    work();

    function workb() {
        b('doing some work');
        setTimeout(workb, Math.random() * 2000);
    }

    workb();
```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here are some examples:

<img width="647" alt="screen shot 2017-08-08 at 12 53 04 pm" src="https://user-images.githubusercontent.com/71256/29091703-a6302c88-7c38-11e7-8304-7c01b3bc600c.png">

<img width="647" alt="screen shot 2017-08-08 at 12 53 38 pm" src="https://user-images.githubusercontent.com/71256/29091700-a62a6888-7c38-11e7-800b-db9112b1ca2b.png">

<img width="647" alt="screen shot 2017-08-08 at 12 53 25 pm" src="https://user-images.githubusercontent.com/71256/29091701-a62a114-7c38-11e7-826a-2692bedca740.png">

#### Windows command prompt notes
##### CMD

On Windows the environment variable is set using the `set` command.

```
```
cmd
set DEBUG=*,-not_this
```

Example:

```
```
cmd
set DEBUG=* & node app.js
```

##### PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```
```
cmd
$env:DEBUG = "*,-not_this"
```

Example:

```
```
cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:

```
```
js
"windowsDebug": "$@powershell -Command $env:DEBUG="*";node app.js",
```

## Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

### Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install the `supports-color` ([https://npmjs.org/supports-color](https://npmjs.org/supports-color)) module alongside debug, otherwise debug will only use a small handful of basic colors.
### Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

### Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

### Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use "::" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

### Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with

`DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do

`DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character.
For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:.

## Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

<table>
<thead>
<tr>
<th>Name</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DEBUG</code></td>
<td>Enables/disables specific debugging namespaces.</td>
</tr>
<tr>
<td><code>DEBUG_HIDE_DATE</code></td>
<td>Hide date from debug output (non-TTY).</td>
</tr>
<tr>
<td><code>DEBUG_COLOR</code></td>
<td>Whether or not to use colors in the debug output.</td>
</tr>
<tr>
<td><code>DEBUG_DEPTH</code></td>
<td>Object inspection depth.</td>
</tr>
<tr>
<td><code>DEBUG_SHOW_HIDDEN</code></td>
<td>Shows hidden properties on inspected objects.</td>
</tr>
</tbody>
</table>

__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an Options object that gets used with `%o`/`%O` formatters. See the Node.js documentation for `util.inspect()` for the complete list.

## Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting. Below are the officially supported formatters:

<table>
<thead>
<tr>
<th>Formatter</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>%O</code></td>
<td>Pretty-print an Object on multiple lines.</td>
</tr>
<tr>
<td><code>%o</code></td>
<td>Pretty-print an Object all on a single line.</td>
</tr>
<tr>
<td><code>%s</code></td>
<td>String.</td>
</tr>
<tr>
<td><code>%d</code></td>
<td>Number (both integer and float).</td>
</tr>
<tr>
<td><code>%j</code></td>
<td>JSON. Replaced with the string '[Circular]' if the argument contains circular references.</td>
</tr>
<tr>
<td><code>%c</code></td>
<td>Single percent sign ('%'). This does not consume an argument.</td>
</tr>
</tbody>
</table>

### Custom formatters

You can add custom formatters by extending the `debug.formatters` object. For example, if you wanted to add support for rendering a Buffer as hex with `%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
  return v.toString('hex')
}
```
```js
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
```

```js
// elsewhere
const debug = createDebug('foo')
dump('this is hex: %h', new Buffer('hello world'))
// foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

### Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify),
or just use the [browserify-as-a-service](https://wzrd.in) [build](https://wzrd.in/standalone/debug@latest),
if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.
Consider the situation shown below where you have `worker:a` and `worker:b`,
and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
a('doing some work');
}, 1000);

setInterval(function(){
b('doing some work');
}, 1200);
```

### Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log`
method:

Example `stdout.js` ([./examples/node/stdout.js](./examples/node/stdout.js)):

```js
var debug = require('debug');
```
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');

## Extend
You can simply extend debugger
```
```
const log = require('debug')('auth');

// creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

## Set dynamically
You can also enable debug dynamically by calling the `enable()` method:
```
```
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));
debug.disable();
console.log(3, debug.enabled('test'));
```
print:
```
1 false
2 true
3 false
```  
Usage:
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable:
```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
```  
## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:
```javascript
const debug = require('debug')('http');
if (debug.enabled) {
  // do stuff...
}
```  
You can also manually toggle this property to force the debug instance to be enabled or disabled.

## Authors
- TJ Holowaychuk
- Nathan Rajlich
- Andrew Rhyne

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Authors: Loren Merritt <lorenm@u.washington.edu>
        Anton Mitrofanov <BugMaster@narod.ru>
        Jason Garrett-Glaser <darkshikari@gmail.com>
        Henrik Grammer <hengar-6@student.ltu.se>

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/*
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var checker = require('../lib/index');

var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
    console.error('license-checker@' + require('../package.json').version);
    var usage = [
        '',
        '  --production only show production dependencies.',
        '  --development only show development dependencies.',
        '  --unknown report guessed licenses as unknown licenses.',
        '  --start [path of the initial json to look for]',
        '  --onlyunknown only list packages with unknown or guessed licenses.',
        '  --json output in json format.',
        '  --csv output in csv format.',
        '  --csvComponentPrefix column prefix for components in csv file',
        '  --out [filepath] write the data to a specific file.',
        '  --customPath to add a custom Format file in JSON',
        '  --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    ];
    console.error(usage.join(' '));
    process.exit(0);
}
'   --relativeLicensePath output the location of the license files as relative paths',
'   --summary output a summary of the license usage',
'   --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
'   --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list',
'   --direct look for direct dependencies only',
'   --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
'   --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-seperated list',
'   --excludePrivatePackages restrict output to not include any package marked as private',
'   --version The current version',
'   --help  The text you are reading right now :)',
''
};

console.error(usages.join('
'), '
');
process.exit(0);

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn && args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.);
  process.exit(1);
} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
    console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of commas (some license names can contain commas));
  }
}

checker.init(args, function(err, json) {

  var formattedOutput = ";

  if (!err) {
    console.error('Found error');
    console.error(err);
  }

  if (shouldColorizeOutput(args)) {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
var keyParts = key.split('@');
var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
json[colorizedKey] = json[key];
delete json[key];
})

if (args.json) {
  formattedOutput = JSON.stringify(json, null, 2) + '
';
} else if (args.csv) {
  formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
} else if (args.markdown) {
  formattedOutput = checker.asMarkdown(json, args.customFormat) + '
';
} else if (args.summary) {
  formattedOutput = checker.asSummary(json);
} else {
  formattedOutput = checker.asTree(json);
}

if (args.files) {
  checker.asFiles(json, args.files);
} else if (args.out) {
  var dir = path.dirname(args.out);
  mkdirp.sync(dir);
  fs.writeFileSync(args.out, formattedOutput, 'utf8');
} else {
  console.log(formattedOutput);
}

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}

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#!/usr/bin/env node
var nopt = require("../lib/nopt")
, path = require("path")
, types = {
  num: Number
, bool: Boolean
, help: Boolean
, list: Array
, "num-list": [Number, Array]
, "str-list": [String, Array]
, "bool-list": [Boolean, Array]
, str: String
, clear: Boolean
, config: Boolean
, length: Number
, file: path
}
, shorthands = {
  s: ["--str", "astring"]
, b: ["--bool"]
, nb: ["--no-bool"]
, tft: ["--bool-list", "--no-bool-list", "--bool-list", "true"]
, ":?": ["--help"]
, h: ["--help"]
, H: ["--help"]
, n: ["--num", "125"]
, c: ["--config"]
, l: ["--length"]
, f: ["--file"]
}
, parsed = nopt(types
, shorthands
, process.argv
, 2)

console.log("parsed", parsed)

if (parsed.help) {
  console.log(""

  nopt cli tester

  ">

  console.log(""

  console.log("types")

  console.log(Object.keys(types).map(function M (t) {
    var type = types[t]
    if (Array.isArray(type)) {

    }})

    if (parsed.help) {
      console.log(""

      nopt cli tester

      ">

      console.log(""

      console.log("types")

      console.log(Object.keys(types).map(function M (t) {
        var type = types[t]
        if (Array.isArray(type)) {

    }
return [t, type.map(function (type) { return type.name })]
}
return [t, type && type.name]
}).reduce(function (s, i) {
  s[i[0]] = i[1]
  return s
}, { })
console.log(""
console.log("shorthands")
console.log(shorthands)
}
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
```
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

```javascript
assert.deepEqual(  
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(  
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
```
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
""UNLICENSED", or ' +
""SEE LICENSE IN <filename>"",
]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
...
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);

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Version   :  6.1.3a
Date      :  22 January 2014
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The code in this library is an extension of Bala Vatti's clipping algorithm:
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Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
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See also:
"Polygon Offsetting by Computing Winding Numbers"
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C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

https://github.com/deanm/css-color-parser-js
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If you want to write an option parser, and have it be good, there are
two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done
that.

The Right Way is to write some complex configurable program with so many
options that you hit the limit of your frustration just trying to
manage them all, and defer it with duct-tape solutions until you see
exactly to the core of the problem, and finally snap and write an
awesome option parser.

If you want to write an option parser, don't write an option parser.
Write a package manager, or a source control system, or a service
restarter, or an operating system. You probably won't end up with a
good one of those, but if you don't give up, and you are relentless and
diligent enough in your procrastination, you may just end up with a very
nice option parser.

## USAGE

```javascript
// my-program.js
var nopt = require("nopt")
Stream = require("stream").Stream
path = require("path")
knownOpts = {
    "foo" : [String, null]
    , "bar" : [Stream, Number]
    , "baz" : path
    , "bloo" : ["big", "medium", "small"]
    , "flag" : Boolean
    , "pick" : Boolean
    , "many1" : [String, Array]
    , "many2" : [path, Array]
}
shortHands = {
    "foofoo" : ["--foo", "Mr. Foo"]
    , "b7" : ["--bar", "7"]
    , "m" : ["--bloo", "medium"]
    , "p" : ["--pick"]
```
```javascript
// everything is optional.
// knownOpts and shorthands default to {}
// arg list defaults to process.argv
// slice defaults to 2
 parsed = nopt(knownOpts, shortHands, process.argv, 2)
console.log(parsed)
```

This would give you support for any of the following:

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Read the tests at the bottom of `lib/nopt.js` for more examples of what this puppy can do.

## Types

The following types are supported, and defined on `nopt.typeDefs`:

* String: A normal string. No parsing is done.
* path: A file system path. Gets resolved against cwd if not absolute.
* url: A url. If it doesn't parse, it isn't accepted.
* Number: Must be numeric.
* Date: Must parse as a date. If it does, and `Date` is one of the options, then it will return a Date object, not a string.
* Boolean: Must be either `true` or `false`. If an option is a boolean, then it does not need a value, and its presence will imply `true` as the value. To negate boolean flags, do `--no-whatever` or `--whatever false`
* NaN: Means that the option is strictly not allowed. Any value will fail.
* Stream: An object matching the `Stream` class in node. Valuable for use when validating programmatically. (npm uses this to let you supply any WriteStream on the `outfd` and `logfd` config options.)
* Array: If `Array` is specified as one of the types, then the value will be parsed as a list of options. This means that multiple values can be specified, and that the value will always be an array.

If a type is an array of values not on this list, then those are considered valid values. For instance, in the example above, the `--bloo` option can only be one of `"big"`, `"medium"`, or `"small"`, and any other value will be rejected.

When parsing unknown fields, `"true"`, `"false"`, and `"null"` will be interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For instance `{ blah: [Number, null] }` would allow a value to be set to either a Number or null. When types are ordered, this implies a preference, and the first type that can be used to properly interpret the value will be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that hash is an object with a `type` member and a `validate` method. The `type` member is an object that matches what goes in the type list. The `validate` method is a function that gets called with `validate(data, key, val)`. Validate methods should assign `data[key]` to the valid
value of `val` if it can be handled properly, or return boolean `false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a config object and remove its invalid properties.

## Error Handling

By default, nopt outputs a warning to standard error when invalid values for known options are found. You can change this behavior by assigning a method to `nopt.invalidHandler`. This method will be called with the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler` is assigned, then it will `console.error` its whining. If it is assigned to boolean `false` then the warning is suppressed.

## Abbreviations

Yes, they are supported. If you define options like this:

```javascript
{ "foolhardyelephants" : Boolean,
  "pileofmonkeys" : Boolean }
```

Then this will work:

```bash
node program.js --foolhar --pil
node program.js --no-f --pileofmon
# etc.
```

## Shorthands

Shorthands are a hash of shorter option names to a snippet of args that they expand to.

If multiple one-character shorthands are all combined, and the combination does not unambiguously match any other option or shorthand, then they will be broken up into their constituent parts. For example:

```json
{ "s" : ["--loglevel", "silent"],
  "g" : "--global",
  "f" : "--force",
  "p" : "--parseable" }
```
```bash
npm ls -sgflp
# just like doing this:
npm ls --loglevel silent --global --force --long --parseable
```

## The Rest of the args

The config object returned by nopt is given a special member called `argv`, which is an object with the following fields:

* `remain`: The remaining args after all the parsing has occurred.
* `original`: The args as they originally appeared.
* `cooked`: The args after flags and shorthands are expanded.

## Slicing

Node programs are called with more or less the exact argv as it appears in C land, after the v8 and node-specific options have been plucked off. As such, `argv[0]` is always `node` and `argv[1]` is always the JavaScript program being run.

That's usually not very useful to you. So they're sliced off by default. If you want them, then you can pass in `0` as the last argument, or any other number that you'd like to slice off the start of the list.

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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlere@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
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Daniel Nicoara
Alastair Patrick
Alok Priyadarshi
Kenneth Russell
Brian Salomon
Gregg Tavares
Jeff Timanus
Ben Vanik
Adrienne Walker
thestig@chromium.org
Justin Schuh
Scott Graham
Corentin Wallez
Kai Ninomiya

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

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

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

#include "BigIntegerLibrary.hh"

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

(prints 340282366920938463463374607431768211456)

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

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

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

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

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

Bugs and enhancements
---------------------
The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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-----
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~~~
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 *
 * g722_decode.c - The ITU G.722 codec, decode part.
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 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
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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 bring

## 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 =

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Authors:
Branimir Vasic   (bvasic@mips.com)
Darko Laus       (darko@mips.com)
Djordje Pesut    (djordje@mips.com)
Goran Cordasic   (goran@mips.com)
Nedeljko Babic   (nedeljko.babic imgtec com)
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`cssmin.py` - A Python port of the YUI CSS compressor.

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  * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
  * Portable Audio I/O Library
  * Memory barrier utilities
  *
  * Author: Bjorn Roche, XO Audio, LLC
  *
  * This program uses the PortAudio Portable Audio Library.
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* */

/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
* 
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
* 
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
* 
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NAME: WebDriver
URL: http://selenium.googlecode.com/svn/trunk/py
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
  Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
  Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
  Alexander Melnikov <alm@sibmail.ru>
* Added HPUX support.
  Oliver Jowett <oliver.jowett@gmail.com>
  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
  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.
  Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
  Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
  William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
  Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xIC compiler build issues
  * Added atomicops for AIX (POWER)

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Adrienne Walker
thestig@chromium.org
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Repository: micromatch/braces

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Repository: git@github.com:indutny/hash.js

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Repository: https://github.com/Rich-Harris/sourcemap-codec

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see http://www.opensource.org for
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/test/prec_inverse_4x4.cpp
/test/smallvectors.cpp
/test/redux.cpp
/test/special_numbers.cpp
/test/adjoint.cpp
/test/resize.cpp
/test/mixingtypes.cpp
/test/product_trmv.cpp
/test/sparse_solvers.cpp
/test/cholesky.cpp
/test/geo_quaternion.cpp
/test/miscmatrices.cpp
/test/stddeque.cpp
/test/integer_types.cpp
/test/product_large.cpp
/test/eigensolver_generic.cpp
/test/householder.cpp
/test/geo_orthomethods.cpp
/test/array_for_matrix.cpp
/test/sparseLM.cpp
/test/upperbidiagonalization.cpp
/test/nomalloc.cpp
/test/packetmath.cpp
/test/jacobisvd.cpp
/test/geo_transformations.cpp
/test/swap.cpp
/test/eigensolver_selfadjoint.cpp
/test/inverse.cpp
/test/product_selfadjoint.cpp
/test/product_trsolve.cpp
/test/product_extra.cpp
/test/sparse_solver.h
/test/mapstride.cpp
/test/mapped_matrix.cpp
/test/geo_eulerangles.cpp
/test/eigen2support.cpp
/test/denseLM.cpp
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Mesa Component Licenses

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java_src/android_libs/prootbuf_nano/v2
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## Change Log

### v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fc05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db35f7cc4cd37d8e7b4670f9005f06) contrib (@davglass)

### v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083df6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

### v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a889498707419cd93c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9098](https://github.com/davglass/license-checker/commit/f5c9098a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

### v24.0.1 (2018/10/11 16:40 +00:00)
- [d72ae8](https://github.com/davglass/license-checker/commit/d72ae88cb80d8852e6d12e5c2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640a9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa2](https://github.com/davglass/license-checker/commit/65baa2f532f87ebb75a32578c7ac5837806d12c) contrib and changes (@davglass)

### v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27ca8be6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d1799c43a6cb7cf962d69d1521dc9ac2) changelog (@davglass)

### v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbc66da33838a2266dfe8e412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes #176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d1799c43a6cb7cf962d69d1521dc9ac2) changelog (@davglass)

### v22.0.0 (2018/10/08 19:00 +00:00)
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

### v21.0.0 (2018/07/30 13:49 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8f7cb9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236df90253bdac27763523b2e74ff8) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100bd23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd10246667c20265d42706392c11717cc1d) changelog (@davglass)

### v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fee913b8042f38d) refactor: restore previous code style (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f539222088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f638f7](https://github.com/davglass/license-checker/commit/5f638f7866a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

### v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a9b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d30c9f2e48bfeee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

### v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589ef6f27cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cb25bce8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

### v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbce681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442ae6](https://github.com/davglass/license-checker/commit/442ae69bb5d44e47bf2de441c4ef86d387e49c6) Changlog (@davglass)

### v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf9981646b2b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcb8ed21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06c29312bc250b49baa4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)

- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line statements (@zodiac403)

- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)

- [9cb4f5f2](https://github.com/davglass/license-checker/commit/9cb4f5f2b9ce2c1142e0d1f556f01fd754737a4c) Link with customFormat (@zodiac403)

- [f83aaaee](https://github.com/davglass/license-checker/commit/f83aaaee85ad4cc2e9880802951d5f6bc866e2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)

- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f1e169ed82383f099607f6) Trim output. (@zodiac403)

- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)

- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8b27f6c8ada0d227913b7d0e12ac0dc640) Add example for (c) statement. (@zodiac403)

- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbd6a0cbf689a0c0d2607a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)

- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/pull-1 (@honzajavorek)

- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84fbbac65e007b) remove the old status badge (@honzajavorek)

### v18.0.0 (2018/03/20 12:30 +00:00)

- [315de0b](https://github.com/davglass/license-checker/commit/315de0bb1a881cf87373c30131c217c4820df13a8) 18.0.0 (@davglass)

- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aa3a0cf036f0e60bd6) changelog (@davglass)

- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa82342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)

- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)

- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)

- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)

- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)

- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7d01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)

- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d91d717c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)

- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)

- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed5046b034fb1536b9ff8) add warning about commas and test it (@honzajavorek)

- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccc1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bceff80c0e006d0ef66b) drop support for node 4, add support for node 8 (@honzajavorek)

### v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fecn91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144) Merge pull request #144 from creising/parser-fixes (@creising)
- [d2abb8d](https://github.com/davglass/license-checker/commit/d2abb8df306f3e6b3a321a1e12a70cf477a5a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d709fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c52746c064d318844cf36185dea395e0893ff0) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46ce448](https://github.com/davglass/license-checker/commit/a46ce4483f8723d0b9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c23f6c11012fb69b1470b2ba66d5554) [fixes #128] - Added --onlyAllow option (@davglass)

### v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

### v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186b7aca5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beef870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bfa73278cdab92e221be6ccba191932) app - strengthening license guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2b7b8fa77def0e73) changes (@davglass)

### v14.0.0 (2017/08/28 13:22 +00:00)
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- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

### v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add ```--summary``` mode to show a summary with counts of the used licenses (#121) (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

### v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [faddcc8](https://github.com/davglass/license-checker/commit/faddcc895ef9e6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

### v13.0.2 (2017/07/18 16:24 +00:00)
- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6eef916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97db450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

### v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5e22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

### v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889e9156de4)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dadc809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

### v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662cb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

### v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1f3b5edb0d217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [df3367c](https://github.com/davglass/license-checker/commit/df3367c2bf2e9713a6cccd11341f7f4fa70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

### v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9e4) Check for SPDX-compatible licenses (@xswordsx)

### v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a99033254945ecbbf69362cb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format
Open Source Used In DNAC Platform Cyclops

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- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85) changelog (@davglass)

### v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038ec2f91904ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc53555500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

### v9.0.3 (2017/04/10 13:42 +00:00)
- [af0fd60](https://github.com/davglass/license-checker/commit/af0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

### v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bcee846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fx-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a770303627ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

### v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fba6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0ce4f3993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0f822f50dbce54364ee5f7b7bcc7f1a4)
test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a)
  feat: add licenseText only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cabc50f0df1bf3)
  updated contrbs and changelog (@davglass)

### v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89ee70c71a12b8f12b3dc8e6d58dd)
  9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac5266f646ba21496f338689801809)
  added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dcca89172943a0f)
  fix: replace problematics chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d01041f58db0f5e3e63)
  feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309f2)
  changes and contrib (@davglass)

### v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295)
  8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8e5f96ee3a6)
  guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eab671d32ef3e63215d6530d7fb4acc59)
  Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118d6ae53f1e01056ec99f5c542cb8d63e)
  changes (@davglass)

### v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c8566a7c6607365c86a2c85)
  8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668b8bd3](https://github.com/davglass/license-checker/commit/668b8bd38fd5148f99c5263f4e0506e04d5e3f8a0)
  guess CC0-1.0, upgraded jshint (@drewfish)

### v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5f4acde1c12cc708185a5b866)
  8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544)
  updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551cebb5c5ce8a76fb5367857c891d013)
Changelog (@davglass)

### v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51efb) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53df205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

### v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fd89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a860c52fdd308f172174a4baba99) [fixes #78] - include notice file if found (@davglass)
- [dfcb66f](https://github.com/davglass/license-checker/commit/dfcb66f4966adc74e065f71e45cb08ba8fe62ab) changelog (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab076299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

### v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

### v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fcee1a](https://github.com/davglass/license-checker/commit/60fcee1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

### v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b4f8a) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ae8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cb39b596881a2eeca582ad4bb816879) Added contributors (@davglass)

### v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171ae01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed18801031c4aef44bd0d32dafa1025e53bf10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c79226bc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleared up some code (@davglass)
- [7753998](https://github.com/davglass/license-checker/commit/7753998a06cb5fd5f9ff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14e833647957944b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdafa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d65b7ef6d3c778af54b13a8f888) fix tests (@bengl)
- [26ff66f](https://github.com/davglass/license-checker/commit/26ff66f3d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

### v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c7767ad134fe0f02e298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7ccced220c6fe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

### v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdb664a381cf4c) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)
### v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [9611](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgdck/master (@sgdck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) Removed obsolete d[key].name assignment from tests (@sgdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284e07bf2d08740e03dd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9e1e05efcb9239dfb1da) Added latest contributors (@davglass)

### v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eaef](https://github.com/davglass/license-checker/commit/fe06eaef8844d050ad0f80d576a221dd605131de) Fixed replace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914f6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [957](https://github.com/davglass/license-checker/commit/957) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8ea008e7593037d046f2457e7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318effe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

### v5.0.0 (2016/01/22 15:31 +00:00)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfe9a16ec6) supporting --production and --development flags (@davglass)
- [53](https://github.com/davglass/license-checker/commit/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [54](https://github.com/davglass/license-checker/commit/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dccc59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [94263b](https://github.com/davglass/license-checker/commit/94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1f290fae15963fbb2ab4) Add debug to project. (@swashcap)
### v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96c9f63b3bbf0110b11e8448aed0e7) 4.2.0 (@davglass)
- [981eea](https://github.com/davglass/license-checker/commit/981eeada898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

### v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dceccdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

### v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857d1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842ec4](https://github.com/davglass/license-checker/commit/a842ec4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

### v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8d8ee2f39b8bbf07a0) fixed all of the windows line endings (@davglass)
- [11e648](https://github.com/davglass/license-checker/commit/11e64807484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7ed3c3bdf8d50e43ba8da893063d3e89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaf297d0c23af536b290ba8cc81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1faa9c1be0c816545165020522d2df17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578c848c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970f9e9e0aaab2d4bde5250435b2) Remove unused filter option (never used) (@ptusch)
- [83ca10](https://github.com/davglass/license-checker/commit/83ca10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbf5f7eb7bd356e8ef3cd34e69329d8c8c1)
More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fe8d9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b72ccedd0d53ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6ab63aad2129625825ec3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ae2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cc83d76f73cd7cf62af533) Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5c345736e6be69e7f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5ee6970737dd30856887eb601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f803b5bda4ef966768bb457fe8de44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

### v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbb5a5b](https://github.com/davglass/license-checker/commit/3fbb5a5bd4a89e8ec17328eabf71c4d5e9beb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2f2e7f) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372ab6f8) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a4159a53a1580c94c2903a5b127ad2692) Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463da71b22b09e0eef16b69f820db682) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72c2ab2420bc42bf28b498702dad13e9f67a) Add test for the first function call. (@ptusch)
- [fa8ffdf](https://github.com/davglass/license-checker/commit/fa8ffdf69fd8ae475484a9b47b57a767ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab20a1291b45990ed52adef0e2) Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991fcfb40d6c6980bf13461408da822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7edc0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)
- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2c9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba)
Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
  - [ff5f22](https://github.com/davglass/license-checker/commit/ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
  - [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7b8a24d928c8f2) Add additional 'undefined' checks (@ptusch)

- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19eece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2b02](https://github.com/davglass/license-checker/commit/38a2b02d8a959f7f9db06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)

- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768f8f9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5c27a3a2aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfe803e4aed3624b81148) Add functionality to add a custom format (@ptusch)

### v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0be1c3d3ea1712fe7ca624d86b0) 3.1.0 (@davglass)
  - [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f093d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad47147173559e05267e8fd24c74e5b9d3ae0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

### v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d962a5637401e8) 3.0.3 (@davglass)
  - [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3ae6f61e8c118f6b6b43a56) spdx license (@davglass)

### v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
  - [fc0e083](https://github.com/davglass/license-checker/commit/fc0e0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

### v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570fafa8e7ecce9b37fb25afae7faae6636)
3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e) Checking for valid path first (@davglass)

### v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fe7ff1b8627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde96353dd207eca4badfbb3e0d033a038f17b5) always try to find and log the license file (@davglass)

### v3.0.1 (2015/01/12 18:34 +00:00)
- [898fb5d](https://github.com/davglass/license-checker/commit/898fb5d3fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73edf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dddb15fbb45e8af7f18ee0ca737) fixes #29 (@davglass)

### v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfecc7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e) syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a56a9621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078aeae1f65fa010dada229d2afbb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330ccf) Add --out flag for writing an output file. (@timoxley)
- [47bfc9](https://github.com/davglass/license-checker/commit/47bfc9e0e249b2847c8ed4f3eaad80dcd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b7250802d2dfd6bf0994867577d4c5e3d0ee2a) Don't print info messages to stdout. (@timoxley)

### v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351a7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
- [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89e2cd6818dec4cc1c1) sticking vows 0.8.0 for testing (@davglass)
Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

### v1.0.0 (2014/11/21 13:56 +00:00)
- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bce67541e846d088) added options.filter to checker.init (@davglass)

### v1.0.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44eccc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cabc3e6a196cf8) fixed lint issue (@davglass)

### v1.0.0 (2014/11/20 15:41 +00:00)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baec8e349fe5892dcb659e859b9608) Updated to newer read-installed (@davglass)

### v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adfffd725a9f11331ff2b) 0.0.10 (@davglass)
- [eb3a9b9](https://github.com/davglass/license-checker/commit/e39ad9bce6bdc545772c241e27aba8f40d5b) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9) colorize (@couchand)

### v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950f0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dabc56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f1463568517762b2543df65bf750) case insensitive check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406ae2507aaf1d00d592f6dcb59a16e7c48) Allow for LICENCE (@gdw2)
### v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcdafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c5815135f57d91fb0d1cfb194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc66d5635f9cb5b7e9a7978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d9e6bab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fd38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390c0a466a15cd3a84347227889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

### v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237807818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d04195945068b3c5f427007c43cd6ce73c6ad6f) Added not check and a proper test (@davglass)
- [40dfe25](https://github.com/davglass/license-checker/commit/40dfe2580496c3e1e4d08ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d07d07f626cf76eb47e7b1610ed5c6e68ae40d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740dc83f6246e0e73418326432db) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390ff66b31a079396d325796dbd65f907) Added some better tests (@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac375795ceb6db53452d0e41d1c4bc313f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a876ec9a497ce3b83198ce97e144f) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820e63dce5d6c4567f1cfa0d7142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d8733439d4f55d94f222d) Removing unnecessary log statement (@paulmand3)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403434cecf5ec07bb504cb931ce0536f3a) Adding license checks in the LICENSE file (and variations) (@paulmand3)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81ee0f](https://github.com/davglass/license-checker/commit/a81ee0fa27f580688e371cc15015e848591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b012f19e07a8274e05cd8333ce050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e19502c8716934d1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c4a988b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e)
Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc197f58c36cb59952254cd66c31017) Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13) Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dce4e2bde37) fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a66e) fixed bug with multiple licenses objects not showing (@badunk)
- [#6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a) cleaned up the code (@badunk)
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19) added check for circular dependencies (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd6f751da9d44e28853587ac) Version Bump (@davglass)
- [#1](https://github.com/davglass/license-checker/pull/1) Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212af78ad9af7fee21d50ab762) Don't ignore license field if it's a string (@mwilliamson)
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbae5447492c53) Initial Commit (@davglass)

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# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@gmail.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@gmail.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@gmail.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrsk@gmail.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@gmail.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@gmail.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>
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The following individuals and institutions are among the Contributors:

* Aaron C. Meadows <cmake@shadowguarddev.com>
* Adriaan de Groot <groot@kde.org>
* Aleksey Avdeev <solo@altlinux.ru>
* Alexander Neundorf <neundorf@kde.org>
* Alexander Smorkalov <alexander.smorkalov@itseez.com>
* Alexey Sokolov <sokolov@google.com>
* Alex Turbov <i.zaufi@gmail.com>
* Andreas Pakulat <apaku@gmx.de>
* Andreas Schneider <asn@cryptomilk.org>
* Andr Rigland Brodtkorb <Andre.Brodtkorb@ifi.uio.no>
* Axel Huebl, Helmholtz-Zentrum Dresden - Rossendorf
* Benjamin Eikel
* Bjoern Ricks <bjoern.ricks@gmail.com>
* Brad Hards <bradh@kde.org>
* Christopher Harvey
* Christoph Grninger <foss@grueninger.de>
* Clement Creusot <creusot@cs.york.ac.uk>
* Daniel Blezek <blezek@gmail.com>
* Daniel Pfeifer <daniel@pfeifer-mail.de>
* Enrico Scholz <enrico.scholz@informatik.tu-chemnitz.de>
* Eran Ifrah <eran.ifrah@gmail.com>
* Esben Mose Hansen, Ange Optimization ApS
* Geoffrey Viola <geoffrey.viola@asirobots.com>
* Google Inc
* Gregor Jasny
* Helio Chissini de Castro <helio@kde.org>
* Ilya Lavrenov <ilya.lavrenov@itseez.com>
* Insight Software Consortium <insightsoftwareconsortium.org>
* Jan Woetzel
* Kelly Thompson <kgt@lanl.gov>
* Konstantin Podsvirov <konstantin@podsvirov.pro>
* Mario Bensi <mbensi@ipsquad.net>
* Mathieu Malaterrre <mathieu.malaterrre@gmail.com>
* Matthaeus G. Chajdas
* Matthias Kretz <kretz@kde.org>
* Matthias Maennich <matthias@maennich.net>
* Michael Strner
* Miguel A. Figueroa-Villanueva
* Mike Jackson
* Mike McQuaid <mike@mikemcquaid.com>
* Nicolas Bock <nicolasbock@gmail.com>
* Nicolas Despres <nicolas.despres@gmail.com>
* Nikita Krupen'ko <knkrit@gmail.com>
* NVIDIA Corporation <www.nvidia.com>
* OpenGamma Ltd. <opengamma.com>
* Patrick Stotko <stotko@cs.uni-bonn.de>
* Per yvind Karlsen <peroyvind@mandriva.org>
* Peter Collingbourne <peter@pcc.me.uk>
* Petr Gotthard <gotthard@honeywell.com>
* Philip Lowman <philip@yhbt.com>
* Philippe Proulx <pproulx@efficios.com>
* Raffi Enficiaud, Max Planck Society
* Raumfeld <raumfeld.com>
* Roger Leigh <rleigh@codelibre.net>
* Rolf Eike Beer <eike@sf-mail.de>
* Roman Donchenko <roman.donchenko@itseez.com>
* Roman Kharitonov <roman.kharitonov@itseez.com>
See version control history for details of individual contributions.

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NPM License Checker
===================


*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```
You should see something like this:

```
...
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
  licenses: BSD
  repository: http://github.com/yui/yui-lint
...
```

An asterisk next to a license name means that it was deduced from an other file than package.json (README, LICENSE, COPYING, ...)

You could see something like this:

```
...
debug@2.0.0
  repository: https://github.com/visionmedia/debug
  licenses: MIT*
...
```

Options
* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage.
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages` restrict output to not include any package marked as private
* `--direct` look for direct dependencies only

Exclusions
----------
A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does support some license strings that are not SPDX identifiers.

Examples
--------
```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format
--------------
The `--customPath` option can be used with CSV to specify the columns. Note that the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in [customFormatExample.json](customFormatExample.json).

Requiring
---------

```js
var checker = require('license-checker');

checker.init({
    start: '/path/to/start/looking'
}, function(err, packages) {
    if (err) {
        //Handle error
    } else {
        //The sorted package data
        //as an Object
    }
});
```

Debugging
---------

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. There are two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors
Set the `DEBUG` environment variable to one of these to see debug output:

```shell
$ export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
repository: http://github.com/chriso/cli
licenses: MIT
# ...
```  

How Licenses are Found
----------------------

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s. We try to identify the license with the [`spdx`](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.

**GNU LESSER GENERAL PUBLIC LICENSE**

Version 2.1, February 1999

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Ellistonbe at cygnus dot com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.

Ross Johnsonrj at callisto dot canberra dot edu dot au
early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.

Robert Colquhounrjc at trump dot net dot au
Early bug fixes.

John E. BossomJohn dot Bosom at cognos dot com
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.

Anders Norlanderanorland at hem2 dot passagen dot se
Early enhancements and runtime checking for supported Win32 routines.

Tor Lillqvistml at iki dot fi
General enhancements;
early bug fixes to condition variables.

Scott Lightnerscott at curriculum dot com
Bug fix.

Kevin RulandKevin dot Ruland at anheuser-busch dot com
Various bug fixes.
Mike Russomiker at eai dot com
Bug fix.
Mark E. Armstrongavail at pacbell dot net
Bug fixes.
Lorin Hochstein lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.
Peter SlacikPeter dot Slacik at tatramed dot sk
Bug fixes.
Mumit Khankhan at xraylith dot wisc dot edu
Fixes to work with Mingw32.
Milan Gardianmng at tatramed dot sk
Bug fixes and reports/analyses of obscure problems.
Aurelio Medinaaureliom at crt dot com
First implementation of read-write locks.
Graham DumpletonGraham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au
Bug fix in condition variables.
Tristan Savatiertristan at mpegtv dot com
WinCE port.
Erik Hensemaeriik at hensema dot xs4all dot nl
Bug fixes.
Rich Peterpeters at micro-magic dot com
Todd Owentowen at lucidcalm dot dropbear dot dot id dot au
Bug fixes to dll loading.
Jason Nyejnye at nbnet dot nb dot ca
Implementation of async cancelation.
Fred Foresterforest at eticomm dot net
Kevin D. Clarkkclark at cabletron dot com
David Baggettmb at itasoftware dot com
Bug fixes.
Paul Redondopaul at matchvision dot com
Scott McCaskill scott at 3dfx dot com
Bug fixes.
Jef Gearhartgearhart at tpssys dot com
Bug fix.
Arthur Kantorakantor at bexusa dot com
Mutex enhancements.
Steven Reddiesmr at essemer dot com dot au
Bug fix.
Alexander TerekhovTEREKHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff [tpfafl at gmx dot net]
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez [franco dot bez at gmx dot de]
procedure to fix Mingw32 thread-safety issues.
Louis Thomas [lthomas at arbitrade dot com]
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korn [dgk at research dot att dot com]
Ported to UWIN.
Phil Frisbie, Jr [phil at hawksoft dot com]
Bug fix.
Ralf Brese [ralf dot brese at pdb4 dot siemens dot de]
Bug fix.
prionx at juno dot com prionx at juno dot com
Bug fixes.
Max Woodbury [mtew at cds dot duke dot edu]
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerr flame [rfanner at stonethree dot com]
Bug fix.
Michael Johnson [michaelj at maine dot rr dot com]
Bug fix.
Nicolas Barry [boozai at yahoo dot com]
Bug fixes.
Piet van Bruggen [pietvb at newbridges dot nl]
Bug fix.
Makoto Kato [raven at oldskool dot jp]
AMD64 port.
Panagiotis E. Hadjidoukas [peh at hpclab dot ceid dot upatras dot gr]
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryant [will dot bryant at ecosm dot com]
Borland compiler patch and makefile.
Anuj Goyal [anuj dot goyal at gmail dot com]
Port to Digital Mars compiler.
Gottlob Frege [gottlobfrege at gmail dot com]
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchko [vladimir at kliatchko dot com]
reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2):
implementation of MCS (Mellor-Crummey/Scott) locks.

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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# Names should be added to this file as:
#  Name <email address>

Mark Mentovai <mark@chromium.org>
Robert Sesek <rsesek@chromium.org>
Scott Graham <scotmg@chromium.org>
Joshua Peraza <jperaza@chromium.org>
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Changes:
- Rings created from the reference rectangle file.
- earthcloudmapcolortrans.png was made from the earthcloudmapspec.jpg file

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
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src/bdf/module.mk
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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.

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

# spdx-license-ids


A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):
npm install spdx-license-ids

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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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.]

Preamble

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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.

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 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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(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.

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[[]])

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(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

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version 1.2.11, January 15th, 2017

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

*/

1.682 finalhandler 0.4.1 0.4.1
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1.703 node-extend-without-arrays 1.1.5 1.1.5
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# node.extend
A port of jQuery.extend that **actually works** on node.js

## Description

None of the existing ones on npm really work therefore I ported it myself.

## Usage

To install this module in your current working directory (which should already contain a package.json), run

```shell
npm install node.extend
```

You can additionally just list the module in your [package.json](https://npmjs.org/doc/json.html) and run npm install.

Then, require this package where you need it:

```javascript
var extend = require('node.extend');
```

The syntax for merging two objects is as follows:

```javascript
var destObject = extend([], sourceObject);
// Where sourceObject is the object whose properties will be copied into another.
// NOTE: In this situation, this is not a deep merge. See below on how to handle a deep merge.
```

For information about how the clone works internally, view source in lib/extend.js or checkout the doc from [jQuery][]

### A Note About Deep Merge (avoiding pass-by-reference cloning)

In order to force a deep merge, when extending an object, you must pass boolean true as the first argument to extend:
```javascript
var destObject = extend(true, {}, sourceObject);
// Where sourceObject is the object whose properties will be copied into another.
```

See [this article](http://www.jon-carlos.com/2013/is-javascript-call-by-value-or-call-by-reference/) for more information about the need for deep merges in JavaScript.

## Credit

- Jordan Harband [@ljharb]]

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[testling-png]: https://ci.testling.com/dreamerslab/node.extend.png
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[dev-deps-url]: https://david-dm.org/dreamerslab/node.extend#info=devDependencies
[jQuery]: http://api.jquery.com/jQuery.extend/
[@ljharb]: https://twitter.com/ljharb

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050208245_1592833329.18/0/node-extend-1.1.5-zip/node.extend-1.1.5/Readme.md

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```javascript
/*!
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 * http://jquery.org/license
 *
 * @fileoverview
 * Port of jQuery.extend that actually works on node.js
 */
```

Found in path(s):
1.704 methods 1.1.2 1.1.2

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1.705 lodash.curry 4.1.1 4.1.1

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1.707 uri-js 3.0.2 3.0.2

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```javascript
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');

export default {
  entry: "dist/esnext/index.js",
  format: "umd",
  moduleName: "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    }),
    babel({
      "presets": [
        ["latest", {
          "es2015": {
            "modules": false
          }
        }]
      ],
      "plugins": ["external-helpers"],
      "externalHelpers": false
    })
  ],
  dest: "dist/es5/uri.all.js",
  sourceMap: true,
  banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */"
};
```

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).
It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)) and IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 5.6kb (gzipped, 15kb deflated).

## API

### Parsing & Validating

```javascript
var components = URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
// scheme : "uri",
// userinfo : "user:pass",
// host : "example.com",
// port : 123,
// path : "/one/two.three",
// query : "q1=a1&q2=a2",
// fragment : "body"
//}
```

### Serializing

```javascript
URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"
```

### Resolving

```javascript
URI.resolve("uri://a/b/c/d?q", "../../g") === "uri://a/g"
```

### Normalizing

```javascript
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

### Comparison

```javascript
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/.b/.b/%63/%7bfoo%7d") === true
```

### IRI Support

```javascript
//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ro%C3%A9"
```

```javascript
//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ro%C3%A9"), {iri:true}) === "http://exampl.org/ro"
```

### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more
of the following properties:

* `scheme` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

* `reference` (string)

If set to ""suffix"", it indicates that the URI is in the suffix format, and the validator will use the option's `scheme` property to determine the URI's scheme.

* `tolerant` (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

* `absolutePath` (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

* `iri` (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `unicodeSupport` (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `domainHost` (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

### Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

* `http` ![RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)
* `https` ![RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)
* `mailto` ![RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)
* `urn` ![RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)
* `urn:uuid` ![RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)

### HTTP Support

`URI.equal("HTTP://ABC.COM:80", "http://abc.com")` === true
### Mailto Support

```javascript
URL.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
//  scheme : "mailto",
//  to : ["alpha@example.com", "bravo@example.com"],
//  subject : "SUBSCRIBE",
//  body : "Sign me up!"
//}

URL.serialize(
  {
    scheme : "mailto",
    to : ["alpha@example.com"],
    subject : "REMOVE",
    body : "Please remove me",
    headers : {
      cc : "charlie@example.com"
    }
  }) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

## Usage

To load in a browser, use the following tag:

```html
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```bash
npm install uri-js
```

Then, in your code, load it using:

```javascript
var URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```typescript
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```typescript
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

## Breaking changes from 2.x
URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

## Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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(!components.path || !components.path.match(UUID))) {\n\t\t\tcomponents.error = components.error || \"UUID is
not valid.\";\n\t\t}\n\t\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//ensure UUID is valid\n\t\tif (!options.tolerant && (!components.path
|| !components.path.match(UUID))) {\n\t\t\t//invalid UUIDs can not have this scheme\n\t\t\tcomponents.scheme =
undefined;\n\t\t} else {\n\t\t\t//normalize UUID\n\t\t\tcomponents.path = (components.path ||
\"\").toLowerCase();\n\t\t}\n\n\t\treturn SCHEMES[\"urn\"].serialize(components, options);\n\t}\n};\n","import {
URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nconst NID$
= \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst
TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ =
\"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" +
NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst
URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F\\xFF]/g;\n\n//RFC 2141\nexport default {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\tconst matches = components.path &&
components.path.match(URN_PARSE);\n\n\t\tif (matches) {\n\t\t\tconst scheme = \"urn:\" +
matches[1].toLowerCase();\n\t\t\tlet schemeHandler = SCHEMES[scheme];\n\n\t\t\t//in order to serialize
properly,\n\t\t\t//every URN must have a serializer that calls the URN serializer\n\t\t\tif (!schemeHandler)
{\n\t\t\t\t//create fake scheme handler\n\t\t\t\tschemeHandler = SCHEMES[scheme] = {\n\t\t\t\t\tscheme :
scheme,\n\t\t\t\t\tparse : function (components:URIComponents, options:URIOptions):URIComponents
{\n\t\t\t\t\t\treturn components;\n\t\t\t\t\t},\n\t\t\t\t\tserialize :
SCHEMES[\"urn\"].serialize\n\t\t\t\t};\n\t\t\t}\n\n\t\t\tcomponents.scheme = scheme;\n\t\t\tcomponents.path =
matches[2];\n\n\t\t\tcomponents = schemeHandler.parse(components, options);\n\t\t} else {\n\t\t\tcomponents.error
= components.error || \"URN can not be parsed.\";\n\t\t}\n\n\t\treturn components;\n\t},\n\n\tserialize : function
(components:URIComponents, options:URIOptions):URIComponents {\n\t\tconst scheme = components.scheme ||
options.scheme;\n\n\t\tif (scheme && scheme !== \"urn\") {\n\t\t\tconst matches = scheme.match(URN_SCHEME)
|| [\"urn:\" + scheme, scheme];\n\t\t\tcomponents.scheme = \"urn\";\n\t\t\tcomponents.path = matches[1] + \":\" +
(components.path ? components.path.replace(URN_EXCLUDED, pctEncChar) : \"\");\n\t\t}\n\n\t\treturn
components;\n\t}\n};\n","import { URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar,
pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp,
toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport
interface MailtoComponents extends URIComponents
{\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders
= {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\.\\\\_\\\\~\" + (isIRI ?
\"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") +
\"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ =
subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" +
subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @
: / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ =
\"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$
= merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$); //%d33 / %d35-91 / %d93-126 / obsqtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ =
subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const
FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$
= subexp(subexp(\"\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const
QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" +
'\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst

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null
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t\t}\n\n\t\t\t\tto[x] = localPart + \"@\" +
domain;\n\t\t\t}\n\n\t\t\tcomponents.path = to.join(\",\");\n\t\t}\n\n\t\tconst headers = components.headers =
components.headers || {};\n\n\t\tif (components.subject) headers[\"subject\"] = components.subject;\n\t\tif
(components.body) headers[\"body\"] = components.body;\n\n\t\tconst fields = [];\n\t\tfor (const name in headers)
{\n\t\t\tif (headers[name] !== O[name]) {\n\t\t\t\tfields.push(\n\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\"=\"
+\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t\t);\n\t\t\t}\n\t\t}\n\t\tif (fields.length)
{\n\t\t\tcomponents.query = fields.join(\"&\");\n\t\t}\n\n\t\treturn components;\n\t}\n}\n","import {
URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nexport default {\n\tscheme :
\"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n","import {
URIComponents, URIOptions } from \"../uri\";\n\nexport default {\n\tscheme : \"http\",\n\n\tdomainHost :
true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report
missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a
host.\";\n\t\t}\n\n\t\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port ===
(String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\")
{\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the empty path\n\t\tif (!components.path)
{\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t//as WWW
Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\t\treturn
components;\n\t}\n};\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI
parsing/validating/resolving library for JavaScript.\n * @author <a href=\"mailto:gary.court@gmail.com\">Gary
Court</a>\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights
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SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of
the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of
Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexpsiri\";\nimport punycode from \"punycode\";\nimport { toUpperCase, typeOf } from \"./util\";\n\nexport interface
URIComponents
{\n\tscheme?:string,\n\tuserinfo?:string,\n\thost?:string,\n\tport?:number|string,\n\tpath?:string,\n\tquery?:string,\n\tfr
agment?:string,\n\treference?:string,\n\terror?:string\n}\n\nexport interface URIOptions
{\n\tscheme?:string,\n\treference?:string,\n\ttolerant?:boolean,\n\tabsolutePath?:boolean,\n\tiri?:boolean,\n\tunicode
Support?:boolean,\n\tdomainHost?:boolean\n}\n\nexport interface URISchemeHandler
{\n\tscheme:string,\n\tparse(components:URIComponents,
options:URIOptions):URIComponents,\n\tserialize(components:URIComponents,

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number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else { //IE FIX for
improper RegExp matching\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1] ||
undefined;\n\t\t\tcomponents.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] :
undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -1 ? matches[4] :
undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] ||
\"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port =
(uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\t\t//strip brackets from
IPv6 hosts\n\t\tif (components.host) {\n\t\t\tcomponents.host = components.host.replace(protocol.IPV6ADDRESS,
\"$1\");\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined && components.userinfo
=== undefined && components.host === undefined && components.port === undefined && !components.path
&& components.query === undefined) {\n\t\t\tcomponents.reference = \"same-document\";\n\t\t} else if
(components.scheme === undefined) {\n\t\t\tcomponents.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {\n\t\t\tcomponents.reference = \"absolute\";\n\t\t} else
{\n\t\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t}\n\n\t\t//find scheme
handler\n\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t//convert
Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \" + e;\n\t\t\t\t}\n\t\t\t}\n\t\t\t//convert IRI -> URI\n\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t} else {\n\t\t\t//normalize encodings\n\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif
(components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//ensure IPv6 addresses are
bracketed\n\t\turiTokens.push(String(components.host).replace(protocol.IPV6ADDRESS, \"[$1]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ?
uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 =
/^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function
removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif
(input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput =
input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3,
\"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst
im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput =
input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment
condition\");\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?

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The array of numeric code points.

* @returns {String} The new Unicode string (UCS-2).

*/
const ucs2encode = array => String.fromCharCode(...array);

/**
 * Converts a basic code point into a digit/integer.
 * @see `digitToBasic()`
 * @private
 * @param {Number} codePoint The basic numeric code point value.
 * @returns {Number} The numeric value of a basic code point.
 */
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x10) {
    return codePoint - 0x16;
  }
  if (codePoint - 0x41 < 0x10) {
    return codePoint - 0x41;
  }
  if (codePoint - 0x61 < 0x10) {
    return codePoint - 0x61;
  }
  return base;
};

/**
 * Converts a digit/integer into a basic code point.
 * @see `basicToDigit()`
 * @private
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The basic code point whose value (when used for
 * representing integers) is `digit`, which needs to be in the range
 * `0` to base - 1. If `flag` is non-zero, the uppercase form is used;
 * else, the lowercase form is used. The behavior is undefined if
 * `flag` is non-zero and `digit` has no uppercase form.
 */
const digitToBasic = function(digit, flag) {
  // 0..25 map to ASCII a..z or A..Z
  // 26..35 map to ASCII 0..9
  return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};

/**
 * Bias adaptation function as per section 3.4 of RFC 3492.
 * https://tools.ietf.org/html/rfc3492#section-3.4
 * @private
 */
const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  delta = firstTime ? Math.floor(delta / damp) : delta >> 1;
  delta += Math.floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = Math.floor(delta / baseMinusTMin);
  }
  return Math.floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};

/**
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;

  // Handle the basic code points: let `basic` be the number of input code
  // points before the last delimiter, or `0` if there is none, then copy
  // the first basic code points to the output.
  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }

  for (let j = 0; j < basic; ++j) {
    if (input.charCodeAt(j) >= 0x80) {
      error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code
  // points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    // `index` is the index of
    // the next character to be consumed.
    // Decode a generalized variable-length integer into `delta`,
    // where `delta` is a number.
    let oldi = i;
    let w = 1, k = base;
    for (/* no condition */; k += base) {
      if (index >= inputLength) {
        error('invalid-input');
      }
      const digit = basicToDigit(input.charCodeAt(index++));
      if (digit >= base || digit > Math.ceil((maxInt - i) / w)) {
        error('overflow');
      }
      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      const baseMinusT = base - t;
      const out = Math.floor(i / baseMinusT) + 1;
      const oldbias = adapt(i - oldi, out, oldi == 0);
      i %= out;
      output.splice(i++, 0, out);
    }
  }
  return String.fromCharCode(...output);
};

/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a
 * Punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const encode = function(input) {
  const output = [];

  // Convert the input in UCS-2 to an array of Unicode code points.
  let input = ucs2decode(input);

  // Cache the length.
  let n = input.length;
  let delta = 0;

  // Initialize the state.
  n = initialN;
  delta = initialBias;

  // Handle the basic code points.
  for (const currentValue of input) {
    if (currentValue < 0x80) {
      output.push(stringFromCharCode(currentValue));
    }
  }

  let basicLength = output.length;
  let handledCPCount = basicLength;
  let handledCPCount = basicLength;
  let n = initialN;
  let delta = initialBias;
  let delta = Math.ceil((maxInt - i) / w);
  for (/* no initialization */; k += base) {
    if (index >= inputLength) {
      error('invalid-input');
    }
    const digit = basicToDigit(input.charCodeAt(index++));
    if (digit >= base || digit > Math.ceil((maxInt - i) / w)) {
      error('overflow');
    }
    i += digit * w;
    const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
    const baseMinusT = base - t;
    const out = Math.floor(i / baseMinusT) + 1;
    const oldbias = adapt(i - oldi, out, oldi == 0);
    i %= out;
    output.splice(i++, 0, out);
  }
  return String.fromCharCode(...output);
};

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'basicLength' is the number of basic code points.

```javascript
// Finish the basic string with a delimiter unless it's empty.
if (basicLength) {
  output.push(delimiter);
}

// Main encoding loop:
while (handledCPCount < inputLength) {

  // All non-basic code points < n have been handled already.
  let m = maxInt;
  for (const currentValue of input) {
    if (currentValue >= n && currentValue < m) {
      m = currentValue;
    }
  }

  // Increase 'delta' enough to advance the decoder's <n,i> state
  // but guard against overflow.
  const handledCPCountPlusOne = handledCPCount + 1;
  delta += (m - n) * handledCPCountPlusOne;
  if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
    error('overflow');
  }

  // Convert a Punycode string representing a domain name or an email address
  // to Unicode. Only the Punycoded parts of the input will be converted,
  // i.e. if it doesn't matter if you call it on a string that has already been
  // converted to Unicode.
  const toUnicode = function(input) {
    return mapDomain(input, function(string) {
      return regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) : string;
    });
  }

  // Convert the current Punycode.js version number.
  const version = '2.1.0';

  // An object of methods to convert from JavaScript's internal character
  // representation (UCS-2) to Unicode code points, and back.
  const ucs2 = {
    encode: ucs2encode,
    decode: ucs2decode,
  }

  export default ucs2;

  // Define the public API
  const punycode = {
    version: '2.1.0',
    uc2: ucs2,
    toASCII: toASCII,
    toUnicode: toUnicode,
  }
```
merge(ALPHASS,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,$,
No license file was found, but licenses were detected in source scan.

/*
 * QUnit - A JavaScript Unit Testing Framework
 * http://docs.jquery.com/QUnit
 */

Copyright (c) 2009 John Resig, Jörn Zaefferer
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*/
/**
  * jsDump
  * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
  * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
  * Date: 5/15/2008
  * @projectDescription Advanced and extensible data dumping for Javascript.
  * @version 1.0.0
  * @author Ariel Flesler
  * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038404366_1592805264.4/0/uri-3-0-2-1-tgz/package/tests/qunit.js
No license file was found, but licenses were detected in source scan.

Open Source Used In DNAC Platform

Cyclops
unmatched surrogate; only append this code unit, in case the next code unit is the high surrogate of a surrogate pair.

```javascript
function decode(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;

  // Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy the first basic code points to the output.
  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }

  for (let j = 0; j < basic; ++j) {
    if (input.charCodeAt(j) >= 0x80) {
      error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        error('invalid-input');
      }

      let digit = basicToDigit(input.charCodeAt(index++));

      if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
      }

      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);

      const baseMinusT = base - t;
      const outputLength = Math.floor((maxInt / baseMinusT) * ((index - oldi) / base));
      const constDigit = basicToDigit(input.charCodeAt(index++));

      // `i` was supposed to wrap around from ``out` to `0`, but adding `n` each time, so we'll fix that now:
      floor(i / outputLength) + n = floor(i / outputLength); Insert `n` at position `i` of the output.

    }
  }

  return String.fromCharCode(...output);
}
```

The resulting string of Unicode symbols, `\n /*Anconst decode = function(input) { \n \n // Don't use UCS-2, \n const output = []; \n \n const inputLength = input.length; \n \n const oldi = i; \n \n const for (let w = 1, k = base; /* no condition */; k += base) { \n \n let index = \n \n for (let i = 0; i < n; i++) { \n \n // Decoding loop: \n \n const t = \n \n const keybase = baseMinusTMin; \n \n const base = \n \n const poisonousBase = baseMinusTMin;
```

```javascript
const encode = function(input) {
  const output = [];

  // Convert the input in UCS-2 to an array of Unicode code points.
  \n  const output = ucs2decode(input);

  // Cache the output.
```

```javascript
const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  delta = firstTime ? floor(delta / damp) : delta >> 1;
  delta += floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = floor(delta / baseMinusTMin);
  }
  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
}
```

```javascript
const toCodePoint = function(input) {
  return String.fromCharCode(...input);
}
```

```javascript
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;

  // Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy the first basic code points to the output.
  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }

  for (let j = 0; j < basic; ++j) {
    if (input.charCodeAt(j) >= 0x80) {
      error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        error('invalid-input');
      }

      let digit = basicToDigit(input.charCodeAt(index++));

      if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
      }

      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);

      const baseMinusT = base - t;
      const outputLength = Math.floor((maxInt / baseMinusT) * ((index - oldi) / base));
      const constDigit = basicToDigit(input.charCodeAt(index++));

      // `i` was supposed to wrap around from ``out` to `0`, but adding `n` each time, so we'll fix that now:
      floor(i / outputLength) + n = floor(i / outputLength); Insert `n` at position `i` of the output.

    }
  }

  return String.fromCharCode(...output);
}
```

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const encode = function(input) {
  const output = [];

  // Convert the input in UCS-2 to an array of Unicode code points.
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    delta = floor(delta / baseMinusTMin);
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  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
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  return String.fromCharCode(...input);
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      }

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      floor(i / outputLength) + n = floor(i / outputLength); Insert `n` at position `i` of the output.

    }
  }

  return String.fromCharCode(...output);
}
```

```javascript
const encode = function(input) {
  const output = [];

  // Convert the input in UCS-2 to an array of Unicode code points.
  \n  const output = ucs2decode(input);

  // Cache the output.
```

```javascript
const adapt = function(delta, numPoints, firstTime) {
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  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = floor(delta / baseMinusTMin);
  }
  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
}
```

```javascript
const toCodePoint = function(input) {
  return String.fromCharCode(...input);
}
```

```javascript
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
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      error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        error('invalid-input');
      }

      let digit = basicToDigit(input.charCodeAt(index++));

      if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
      }

      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);

      const baseMinusT = base - t;
      const outputLength = Math.floor((maxInt / baseMinusT) * ((index - oldi) / base));
      const constDigit = basicToDigit(input.charCodeAt(index++));

      // `i` was supposed to wrap around from ``out` to `0`, but adding `n` each time, so we'll fix that now:
      floor(i / outputLength) + n = floor(i / outputLength); Insert `n` at position `i` of the output.

    }
  }

  return String.fromCharCode(...output);
}
```
length; let inputLength = input.length; let n = initialN; let delta = 0; let bias = initialBias; handle the basic code points. for (const currentValue of input) {
  let (currentValue < 0x80) {
    output.push(stringFromCharCode(currentValue));
  }
}

let basicLength = output.length; let handledCPCount = basicLength;
// `handledCPCount` is the number of code points that have been handled;
// `basicLength` is the number of basic code points.

// Finish the basic string with a delimiter unless it’s empty.

output.push(delimiter);

Main encoding loop:

while (handledCPCount < inputLength) {
  let n = initialN;
  let delta = 0;
  let bias = initialBias;

  // Handle the basic code points.
  for (const currentValue of input) {
    if (currentValue < 0x80) {
      output.push(stringFromCharCode(currentValue));
    }
  }

  let basicLength = output.length;
  let handledCPCount = basicLength;

  // `handledCPCount` is the number of code points that have been handled,
  // `basicLength` is the number of basic code points.

  // Finish the basic string with a delimiter unless it’s empty.
  if (basicLength) {
    output.push(delimiter);
  }

  // Main encoding loop:
  while (handledCPCount < inputLength) {
    let m = maxInt;
    for (const currentValue of input) {
      if (currentValue >= n && currentValue < m) {
        m = currentValue;
      }
    }

    // Increase `delta` enough to advance the decoder’s <n,i> state to
    // but guard against overflow.
    handledCPCountPlusOne = handledCPCount + 1;
    let (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
      error('overflow');
    }

    delta += (m - n) * handledCPCountPlusOne;
    n = m;

    for (const currentValue of input) {
      if (currentValue < n && ++delta > maxInt) {
        error('overflow');
      }
      if (currentValue == n) {
        // Represent delta as a generalized variable-length integer.
        let q = delta;
        let t = bias;
        for (let k = base; /* no condition */; k += base) {
          if (q < t) {
            break;
          }
          const qMinusT = q - t;
          const baseMinusT = base - t;
          output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
          q = floor(qMinusT / baseMinusT);
        }
        output.push(stringFromCharCode(digitToBasic(q, 0)));
        bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
        delta = 0;
        ++handledCPCount;
      }
    }
    ++delta;
    ++n;
  }
}

return output.join('');
}

/**
 * Converts a Punycode string representing a domain name or an email address in * to Unicode. Only the Punycoded
 parts of the input will be converted, i.e. ln * it doesn’t matter if you call it on a string that has already been ln * converted to Unicode.

 * @memberOf punycode
 * @param {String} input
 * @returns {String} The Unicode representation of the given Punycode
 * string.
 */
const toUnicode = function(input) {
  return mapDomain(input, function(string) {
    return regexPunycode.test(string)
      ? decode(string.slice(4).toLowerCase())
      : string;
  });
}

/**
 * Converts a Unicode string representing a domain name or an email address to Punycode. Only the non-ASCII
 parts of the domain name will be converted,

 * @memberOf punycode
 * @param {String} input
 * @returns {String} The Punycode representation of the given domain name or
 * email address.
 */
const toASCII = function(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string)
      ? 'xn--' + encode(string)
      : string;
  });
}

/*-----------------------------------
---------------------------------------*/

/** Define the public API */
const punycode = {
  /**
   * A string representing the current Punycode.js version number.
   */
  'version': '2.1.0',
  /**
   * An object of methods to convert from JavaScript’s internal character
   * representation (UCS-2) to Unicode code points, and back.
   */
  'ucs2': {
    'decode': ucs2decode,
    'encode': ucs2encode
  },
  'decode': decode,
  'encode': encode,
  'toASCII': toASCII,
  'toUnicode': toUnicode
};

export default punycode;

---

Open Source Used In DNAC Platform Cyclops

---

URI.js

---

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toUpperCase);

if (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

return components;
};

const URI_PARSE = /
^(?:(([^:\/?#@]*@)?(\[[\dA-F.:]+\]|[^\/?#:@]*)(?:\:(\d*))?))?([^?#]*)\?([^#]*)#(\([^#]*\))?$/i;

const NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>("").match(/(){0}/))[1] === undefined;

export function parse(uriString:string, options:URIOptions = {}):URIComponents {
    const components:URIComponents = {};
    const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);

    if (options.reference === "suffix") uriString = (options.scheme ? options.scheme + ":" : "") + "//" + uriString;

    const matches = uriString.match(URI_PARSE);

    if (matches) {
        if (NO_MATCH_IS_UNDEFINED) {
            //store each component
            components.scheme = matches[1];
            components.userinfo = matches[3];
            components.host = matches[4];
            components.port = parseInt(matches[5], 10);
            components.path = matches[6] || "";
            components.query = matches[7];
            components.fragment = matches[8];

            //fix port number
            if (isNaN(components.port)) {
                components.port = matches[5];
            } else {
                //IE FIX for improper RegExp matching
                components.port = parseInt(matches[5], 10);
            }

            //strip brackets from IPv6 hosts
            if (components.host) {
                components.host = components.host.replace(protocol.IPV6ADDRESS, "$1");
            }

            //determine reference type
            if (components.scheme === undefined && components.userinfo === undefined && components.host === undefined && components.port === undefined && !components.path) {
                components.reference = "same-document";
            } else if (components.scheme === undefined) {
                components.reference = "relative";
            } else if (components.fragment === undefined) {
                components.reference = "absolute";
            } else {
                components.reference = "uri";
            }

            if (options.reference && options.reference !== "suffix") {
                components.error = components.error || "URI is not a " + options.reference + " reference.";
            }

            //find scheme handler
            const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

            if (!options.unicodeSupport && !schemeHandler || !schemeHandler.unicodeSupport) {
                //if host component is a domain name
                if (components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {
                    try {
                        components.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctEncChar));
                    } catch (e) {
                        components.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;
                    }
                }
            }
        } else {
            //normalize encodings
            _normalizeComponentEncoding(components, URI_PROTOCOL);
        }

        //perform scheme specific parsing
        if (schemeHandler && schemeHandler.parse) {
            schemeHandler(components, options);
        }
    } else {
        components.error = components.error || "";
    }

    return components;
}
function _recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {
    const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens:Array<string> = [];

    if (components.userinfo !== undefined) {
        uriTokens.push(components.userinfo);
        uriTokens.push("@");
    }

    if (components.host !== undefined) {
        uriTokens.push(String(components.host).replace(protocol.IPV6ADDRESS, "[\$1]"));  //ensure IPv6 addresses are bracketed
    }

    const authority = _recomposeAuthority(uriTokens, options);
    if (authority) {
        return authority;
    } else {
        return undefined;
    }
}

export function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {
    const target:URIComponents = {};

    if (!skipNormalization) {
        base = parse(serialize(base, options), options);  //normalize base components
        relative = parse(serialize(relative, options), options);  //normalize relative components
    }

    options = options || {};

    if (!options.tolerant && relative.scheme) {
        target.scheme = relative.scheme;
        //target.authority = relative.authority;
        target.userinfo = relative.userinfo;
        target.host = relative.host;
        target.port = relative.port;
        target.path = removeDotSegments(relative.path ||
        \
    }
}
options: URIOptions): URIComponents {
  !options.tolerant && (!components.path ||
  !components.path.match(UUID)) ||
  !components.error = components.error || "UUID is not valid.";
  components.path = components.path ? components.path.toLowerCase() : "urn:"
}

function (components, options: URIOptions): URIComponents {
  if (!options.tolerant && (!components.path ||
     !components.path.match(UUID))) {
    components.error = components.error || "UUID is not valid.";
  }
  return components;
}


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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038404366_1592805264.4/0/uri-js-3-0-2-1-tgz/package/dist/es5/uri.all.min.js.map
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1038404366_1592805264.4/0/uri-js-3-0-2-1-tgz/package/dist/esnext/uri.js
* /opt/ws_local/PERMITS_SQL/1038404366_1592805264.4/0/uri-js-3-0-2-1-tgz/package/src/uri.ts
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1.711 argparse 1.0.10 1.0.10

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1.712 es6-promise 4.2.4 4.2.4

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1.713 socket.io-client 2.1.1 2.1.1

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 *
 * L. Peter Deutsch
 * ghost@aladdin.com
 *
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* /opt/ws_local/PERMITS_SQL/1048949653_1591433284.08/0/asm-all-repackaged-2-2-0-b21-sources-1-
  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1048949653_1591433284.08/0/asm-all-repackaged-2-2-0-b21-sources-1-
  jar/org/objectweb/asm/Handler.java
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- /opt/ws_local/PERMITS_SQL/1069088736_1594483108.64/jar/reactor/core/pubisher/MonoSequenceEqual.java
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- /opt/ws_local/PERMITS_SQL/1069088736_1594483108.64/jar/reactor/core/pubisher/MonoSupplier.java
- /opt/ws_local/PERMITS_SQL/1069088736_1594483108.64/jar/reactor/core/pubisher/FluxScan.java
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- /opt/ws_local/PERMITS_SQL/1069088736_1594483108.64/jar/reactor/core/pubisher/MonoPeek.java
- /opt/ws_local/PERMITS_SQL/1069088736_1594483108.64/jar/reactor/core/pubisher/FluxOnBackpressureBuffer.java
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

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

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Versioned libraries rules

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

## Bind internal references

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

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

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

## End BSD-specific setup

---

**1.777 hogan 3.0.2 3.0.2**

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jar/com/kenai/constantine/Constant.java
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jar/jnr/constants/Constant.java
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1.837 ignite-indexing 2.7.6

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1.838 string_decoder 1.3.0 1.3.0
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1.839 rkusa-linebreak 1.0.0 1.0.0

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1.842 bluebird 3.5.1 3.5.1

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1.843 socket.io 2.1.1 2.1.1

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1.846 streamsearch 0.1.2 0.1.2

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1.847 node-promise 0.5.12 0.5.12

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1.855 unicode-trie 0.3.1 0.3.1

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1.856 node-pre-gyp 0.12.0 0.12.0

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# libtool (GNU libtool) 2.4.6
# Provide generalized library-building support services.
# Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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1.860 passport-strategy 1.0.0 1.0.0

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Copyright [yyyy] [name of copyright owner]
validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(valid('Apache 2.0'), {
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
```
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid("SEE LICENSE IN <filename>"),
  'license is similar to the valid expression "Apache-2.0"
)
```
If there aren't any licensing terms, use `UNLICENSED`:

```javascript
``` javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
``` javascript

> validate-npm-package-license@3.0.2 test /home/kyle/validate-npm-package-license.js
> defence README.md | replace-require-self | node

1.865 npmlog 4.1.2 4.1.2

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1.866 asm-all-repackaged 2.2.0-b21

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1.867 fn-name 2.0.1 2.0.1

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1.869 flux 3.1.3 3.1.3
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1.870 babel-helper-regex 6.26.0 6.26.0

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1.871 react-dom 16.13.1 16.13.1

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1.873 brace 0.11.1 0.11.1

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1.874 mongodb-driver 3.0.4
1.875 component-emitter 1.1.2 1.1.2

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1.903 jaeger-core 0.23.0

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 * JSONSchema Validator - Validates JavaScript objects using JSON Schemas
 * *(http://www.json.com/json-schema-proposal/)
 * 
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 * To use the validator call the validate function with an instance object and an optional schema object.
 * If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating),
 * that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).
 * The validate method will return an array of validation errors. If there are no errors, then an empty list will be returned. A validation error will have two properties:
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1.913 jsreport-authorization 2.2.0 2.2.0
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1.914 jackson-dataformat-xml 2.9.10

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# Jackson JSON processor

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

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1.915 nanomatch 1.2.13 1.2.13

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1.916 model-mapper 1.1.0

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see: http://github.com/jrburke/requirejs for details
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063105573_1593668271.03/0/uritemplate-js-0-3-4-zip/uritemplate-js-0.3.4/require.js
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URI Template JS
===============
This is a javascript implementation of [RFC6570](http://tools.ietf.org/html/rfc6570) - URI Template, and can expand templates up to and including Level 4 in that specification.

It exposes a constructor function UriTemplate with the two methods:

* (static) parse(uriTemplateText) returning an instance of UriTemplate
* expand(variables) returning an string

Be aware, that a parsed UriTemplate is frozen, so it is stateless. You can reuse instances of UriTemplates.

Requirements
Open Source Used In DNAC Platform Cyclops 3610

You can use uritemplate.js in any even not so modern browser (Tested even with IE8 in IE7-Mode), see file demo.html.
But you can also use it with node:

**npm install uritemplate**

and then in a node application:

```javascript
var UriTemplate = require('uritemplate'),
template;
template = UriTemplate.parse('{?query*}');
template.expand({query: {first: 1, second: 2}});
--> "?first=1&second=2"
```

or within a html document (see also demo.html):

```html
<script type="text/javascript" src="bin/uritemplate.js"></script>
<script type="text/javascript">
  var template = UriTemplate.parse('{?query*}');
  alert(template.expand({query: {first: 1, second: 2}}));
</script>
```

If you want to clone the git project, be aware of the submodule uritemplate-test.
So you have to:

```
git clone --recursive https://github.com/fxa/uritemplate-js.git
```

Build
-----

```
npm install
npm test
```

Tests
-----

The integration tests are taken from https://github.com/uri-templates/uritemplate-test as a submodule.
The tests are integrated in the Jakefile.

License
-------

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Release Notes
-------------
* 0.3.3 fixed https://github.com/fxa/uritemplate-js/issues/12 Pct-Encoding-Error with chars < 0x100 (missing 0-pading). Thanks to https://github.com/pfraze!
* 0.3.2 fixed https://github.com/fxa/uritemplate-js/issues/11 Problems with older IE versions. Thanks to anozaki!
* 0.3.1 fixed https://github.com/fxa/uritemplate-js/issues/10 thank you, Paul-Martin!
* 0.3.0 introduced UriTemplateError as exception, so the interface changed from string to UriTemplateError (as the rfc suggested)
* 0.2.4 fixed double encoding according [RubenVerborgh] and some Prefix modifiers bugs
* 0.2.3 fixed bug with empty objects ("{empty}" with '{empty:{}}' shall expand to '?empty=')
* 0.2.2 fixed pct encoding bug with multibyte utf8 chars
* 0.2.1 fixed a bug in package.json
* 0.2.0 heavy project refactoring, splitting source files, introducing jshint (preparation of next steps)

Next Steps
----------
* Implementing more unit tests (now only a view tests are implemented)
* A new method extract(uri), which tries to extract the variables from a given uri.
  This is harder, than you might think

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063105573_1593668271.03/0/uritemplate-js-0-3-4-zip/uritemplate-js-0.3.4/README.md
  No license file was found, but licenses were detected in source scan.

  /*
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  */

  Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1063105573_1593668271.03/0/uritemplate-js-0-3-4-zip/uritemplate-js-0.3.4/bin/uritemplate.js
    No license file was found, but licenses were detected in source scan.

  /*global unescape, module, define, window, global*/

  /*
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  */

  (function (exportCallback) {
    "use strict";

  Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1063105573_1593668271.03/0/uritemplate-js-0-3-4-zip/uritemplate-js-
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1.922 jsreport-reports 2.1.1 2.1.1

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1.933 parse-duration 0.1.1 0.1.1

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1.934 regexp-quote 0.0.0 0.0.0

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1.936 qs 4.0.0 4.0.0

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1.937 read-pkg 2.0.0 2.0.0

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1.938 ajv-keywords 3.1.0 3.1.0

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1.940 cryptiles 3.1.2 3.1.2
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1.941 expiringmap 0.5.8

1.942 typesafe-config 1.3.3

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

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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

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

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.ao: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.ao: $(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[ :]*$@ > $@;\" [ -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.cc) $< \
| sed "s/($*).o[ :]*$@ > $@;\" [ -s $@ ] || rm -f $@"

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

## End FreeBSD-specific setup
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man/stringlist.3
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c

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man/fopen.3
man/getpeereid.3
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
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1.976 cache-api 1.0.0

1.977 parsejson 0.0.3 0.0.3
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1.979 async-replace 1.0.1 1.0.1

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1.980 json5 1.0.1 1.0.1
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[others]: https://github.com/json5/json5/contributors

1.981 engine.io-client 3.2.1 3.2.1
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1.982 gtk 3.18.9-1ubuntu3.3

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.1018 yauzl 2.10.0 2.10.0

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')
Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //= false
deprecatedIds.includes('CC-BY-1.0'); //= false

deprecatedIds.includes('GPL-3.0'); //= true
```

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_socket.h
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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Limits.java

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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */

String name();

/**
 * An optional URL for the license.
 */

String url() default "";
}
1.1040 drange 1.0.1 1.0.1

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1.1041 spdx-exceptions 2.2.0 2.2.0

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1.1060 metrics-health-checks 3.1.0

1.1061 ws 6.2.1 6.2.1

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1.1062 array-flatten 1.1.1 1.1.1

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1.1064 yargs-parser 7.0.0 7.0.0

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* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
  jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
  jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
  jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
  jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-
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  jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
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  jar/io/netty/buffer/ByteBufAllocatorMetric.java

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* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-jar/io/netty/buffer/SlicedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072871254_1595214807.59/0/netty-buffer-4-1-42-final-sources-1-jar/io/netty/buffer/PooledByteBufAllocator.java

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1.1075 request 2.83.0 2.83.0

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Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
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Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Patrick Hanna <phanna@gmail.com>
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Preston Jackson <preston.a.jackson@gmail.com>
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1.1086 on-headers 1.0.1 1.0.1

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1.1087 babel-traverse 6.26.0 6.26.0

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1.1088 mime-lookup 0.0.2 0.0.2

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1.1089 netty-codec 4.1.42.Final

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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java
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*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/MessageToMessageEncoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/compression/CompressionException.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/ByteToMessageDecoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java
*/opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/string/package-info.java
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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ContextBoundMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/MessageAggregator.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io/netty/handler/codec/sharding/ProtobufVarint32FrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *<p>
 *{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 *that it can decode any message with a length field, which is often seen in
 *proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.

* 2 bytes length field at offset 0, do not strip header

* The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* initialBytesToStrip = 0 (= do not strip header)

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

Because we can get the length of the content by calling

* @link ByteBuf#readableBytes(), you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to strip the first two bytes.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* &lt;tt&gt;lengthAdjustment&lt;/tt&gt;. Because the length value in this example message
* is always greater than the body length by &lt;tt&gt;2&lt;/tt&gt;, we specify &lt;tt&gt;-2&lt;/tt&gt;
* as &lt;tt&gt;lengthAdjustment&lt;/tt&gt; for compensation.

* &lt;pre&gt;
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* &lt;b&gt;lengthAdjustment&lt;/b&gt;   = &lt;b&gt;-2&lt;/b&gt; (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* &lt;/pre&gt;
*
* &lt;h3&gt;3 bytes length field at the end of 5 bytes header, do not strip header&lt;/h3&gt;
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. &lt;tt&gt;lengthAdjustment&lt;/tt&gt; is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

* &lt;pre&gt;
* &lt;b&gt;lengthFieldOffset&lt;/b&gt;   = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* &lt;b&gt;lengthFieldLength&lt;/b&gt;   = &lt;b&gt;3&lt;/b&gt;
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* &lt;/pre&gt;
*
* &lt;h3&gt;3 bytes length field at the beginning of 5 bytes header, do not strip header&lt;/h3&gt;
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive &lt;tt&gt;lengthAdjustment&lt;/tt&gt; so that the decoder counts the extra
* header into the frame length calculation.

* &lt;pre&gt;
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* &lt;b&gt;lengthAdjustment&lt;/b&gt;   = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)  AFTER DECODE (17 bytes)
* +---------------------+------------------+
* | Length | Header 1 | Actual Content | Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +---------------------+------------------+
* </pre>
* 
* Before decode (17 bytes)  After decode (17 bytes)
* +---------------------+------------------+
* | Length | Header 1 | Actual Content | Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +---------------------+------------------+
* </pre>
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.
* 
* lengthFieldOffset = \texttt{1} (= the length of HDR1)
* lengthFieldLength = \texttt{2}
* \texttt{lengthAdjustment} = \texttt{1} (= the length of HDR2)
* \texttt{initialBytesToStrip} = \texttt{3} (= the length of HDR1 + LEN)
* 
* BEFORE DECODE (16 bytes)  AFTER DECODE (13 bytes)
* +------+-+------+-+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+-+------+-+-----------------+
* </pre>
* 
* Before decode (16 bytes)  After decode (13 bytes)
* +------+-+------+-+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+-+------+-+-----------------+
* </pre>
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.
* 
* lengthFieldOffset = \texttt{1} (= the length of HDR1)
* lengthFieldLength = \texttt{2}
* \texttt{lengthAdjustment} = \texttt{-3} (= the length of HDR1 + LEN, negative)
* \texttt{initialBytesToStrip} = \texttt{3}
* 
* BEFORE DECODE (16 bytes)  AFTER DECODE (13 bytes)
* +------+-+------+-+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+-+------+-+-----------------+
* </pre>
* 
* Before decode (16 bytes)  After decode (13 bytes)
* +------+-+------+-+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+-+------+-+-----------------+
* </pre>
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x010</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

`@see LengthFieldPrepender`

```java
null
```

---

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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io.netty.handler.codec/LengthFieldBasedFrameDecoder.java

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```java
null
```

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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io.netty.handler.codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io.netty.handler.codec/compression/MessageAggregationException.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io.netty.handler.codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-jar/io.netty.handler.codec/compression/Crc32.java
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* /opt/ws_local/PERMITS_SQL/1072871266_1595214869.21/0/netty-codec-4-1-42-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64.java
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  jar/io/netty/handler/codec/base64/Base64Dialect.java

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1.1105 big.js 5.2.2 5.2.2

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1.1144 jackson-databind 2.11.1

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1.1162 bson 3.0.4

1.1163 jcip-annotation 1.0

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It is currently developed by a community of developers, as well as supported
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1.1193 jackson-dataformat-yaml 2.9.8

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  jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1072871174_1595214724.46/0/netty-resolver-4-1-42-final-sources-1-
  jar/io/netty/resolver/HostsFileEntries.java

1.1200 component-emitter 1.3.0 1.3.0
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1.1202 xregexp 4.0.0 4.0.0

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1.1203 jackson-annotations 2.10.1

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1.1204 is-buffer 1.1.6 1.1.6

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1.1207 xpp 1.1.4c

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1.1208 concat-stream 1.6.1 1.6.1

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1.1211 checker-compat-qual 2.5.5

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

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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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Version 2, June 1991

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1.1212 opentracing-noop 0.31.0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
jar/javassist/bytecode/annotation/LongMemberValue.java

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* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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jar/javassist/compiler/KeywordTable.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/compiler/Parser.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/compiler/ast/Pair.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/CannotCompileException.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/analysis/Frame.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/StackMapTable.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/ClassPoolTail.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/CtBehavior.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/CtNewWrappedConstructor.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/CtClassType.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/compiler/CompileError.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/expr/MethodCall.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/compiler/MemberResolver.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/convert/TransformBefore.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/analysis/MultiType.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/compiler/ast/ASTree.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/StackMap.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/tools/Dump.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/ws_local/PERMITS_SQL/1068726671_1594427165.93/0/javassist-3-18-2-ga-sources-2-
1.1214 regenerator-runtime 0.11.1 0.11.1

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1.1249 is-typedarray 1.0.0 1.0.0

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1.1250 asn1 0.2.4 0.2.4
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1.1251 xmlhttprequest-ssl 1.5.3 1.5.3

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1.1254 bouncy-castle 1.57

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1.1255 caseless 0.12.0 0.12.0

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1.1256 boom 5.2.0 5.2.0

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1.1257 libproxy 0.4.11-5ubuntu1

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  jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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  jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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jar/com/google/errorprone/annotations/DoNotMock.java
*/

jar/com/google/errorprone/annotations/FormatString.java
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jar/com/google/errorprone/annotations/NoAllocation.java
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1.1270 cookie 0.1.5 0.1.5

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java

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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/MethodDescriptor.java

1.1282 is-accessor-descriptor 0.1.6 0.1.6
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1.1283 commons-compress 1.2.2 1.2.2

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<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d \[[BLOCK0_HI:v[0-9]+]\], v0, #0
    ; CHECK-DAG: sshll2.2d \[[BLOCK1_HI:v[0-9]+]\], v1, #0
    ; CHECK-DAG: sshll2.2d \[[BLOCK0_HI:v[0-9]+]\], v0, #0
    ; CHECK-DAG: sshll2.2d \[[BLOCK1_HI:v[0-9]+]\], v1, #0
    ; CHECK-DAG: sshll2.2d \[[BLOCK0_HI:v[0-9]+]\], v0, #0
    ; CHECK-DAG: sshll2.2d \[[BLOCK1_HI:v[0-9]+]\], v1, #0
}

; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [BLOCK0_LO]
; CHECK-DAG: scvtf.2d v1, [BLOCK0_HI]
; CHECK-DAG: scvtf.2d v2, [BLOCK1_LO]
; CHECK-DAG: scvtf.2d v3, [BLOCK1_HI]
; CHECK-DAG: scvtf.2d v4, [BLOCK2_LO]
; CHECK-DAG: scvtf.2d v5, [BLOCK2_HI]
; CHECK-DAG: scvtf.2d v6, [BLOCK3_LO]
; CHECK-DAG: scvtf.2d v7, [BLOCK3_HI]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
declare <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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; NOTE:Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpadd (%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32>, %d, %e
store <16 x i32>, %f, <16 x i32>* %c
ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpadd %zmm0, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %4
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqu64 %zmm1, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* undef, align 4
    ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0

; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" { ; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm0
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" { ; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
   ; CHECK-LABEL: _Z9test_charPcS_i_256:
   ; CHECK:       # %bb.0: # %entry
   ; CHECK-NEXT:    movl %edx, %eax
   ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
   ; CHECK-NEXT:    xorl %ecx, %ecx
   ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
   ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
   ; CHECK-NEXT: .p2align 4, 0x90
   ; CHECK-NEXT:  .LBB8_1: # %vector.body
   ; CHECK-NEXT:    ; =>This Inner Loop Header: Depth=1
   ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
   ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
   ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
   ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
   ; CHECK-NEXT:    vpmaddwd %ymm1, %ymm3, %ymm1
   ; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
   ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
   ; CHECK-NEXT:    vpmaddwd %ymm2, %ymm3, %ymm2
   ; CHECK-NEXT:    addq $32, %rcx
   ; CHECK-NEXT:    cmpq %rcx, %rax
   ; CHECK-NEXT:    jne .LBB8_1
   ; CHECK-NEXT:  # %bb.2: # %middle.block
   ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
   ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
   ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
   ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
   ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
   ; CHECK-NEXT:    vpsubb {{.*#+}} xmm1 = xmm0[2,3,0,1]
   ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
   ; CHECK-NEXT:    vpsubb {{.*#+}} xmm1 = xmm0[1,1,2,3]
   ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
   ; CHECK-NEXT:    vmovd %xmm0, %eax
   ; CHECK-NEXT:    vzeroupper
   ; CHECK-NEXT:    retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body
vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %index, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %11, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %i32 32, i32 undef, i32 undef, %i32 32, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> %i32 8, i32 9, i32 10, %i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undefined, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> %i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf15
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> %i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf17
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> %i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %rdx.shuf19
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body
    
    vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %6 = sext <32 x i8> %5, align 1
    %7 = getelementptr inbounds i8, i8* %0, i64 %index
    %8 = bitcast i8* %7 to <32 x i8>*
    %9 = sext <32 x i8> %8, align 1
    %10 = mul nsw <32 x i32> %9, %6
    %11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:      # %bb.0: # %entry
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:  .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:  vmovq %rax a+1024(%rax), %xmm2
    ; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2
    ; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2
}
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:   .p2align 4, 0x90
    ; CHECK-NEXT: .LBB11_1: # %vector.body
    ; CHECK-NEXT:   # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:   vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:   vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:   vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:   addq $4, %rax
    ; CHECK-NEXT:   jne .LBB11_1
    ; CHECK-NEXT: # %bb.2: # %middle.block
    ; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:   vmovd %zmm0, %eax
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq

entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32>, [ zeroinitialize, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 0 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %2 = zext <16 x i8>, <16 x i8>* %1, align 4
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 0 %index
    %4 = bitcast i8* %3 to <16 x i8>*

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%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1> %8 = sub nsw <16 x i32> zeroinitializer, %6 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8 %10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ] %rdx.shuf2 = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> %i32 4, %i32 5, %i32 6, %i32 7, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> %i32 2, %i32 3, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> %i32 1, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx4, <16 x i32> undef, <16 x i32> %i32 0, %i32 undef
ret i32 %12

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {

; CHECK-LABEL: sbto16f32_256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1>
; CHECK-NEXT: %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    kshiftrw $8, %k1, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtqd2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtqd2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vmovaps %zmm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtqd2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32toub_256:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
  ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k0
  ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k1
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
  ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32tosb_256:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k0
  ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k1
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>

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define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [ %k1 ] [ z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm0 = ymm0[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} %zmm2 =
; CHECK-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpand %zmm5, %zmm2, %zmm2
; CHECK-NEXT:  vpunpckhbw {{.*#+}} %zmm3 =
; CHECK-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpand %zmm5, %zmm2, %zmm2
; CHECK-NEXT:  vpackuswb %zmm2, %zmm1, %zmm1
; CHECK-NEXT:  vmovdqa %zmm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa (%zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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Developed by:

LLVM Team

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Program          Directory
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<none yet>       

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {  
    VEC256-LABEL: 'zext256'
    VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
    VEC512-LABEL: 'zext256'
    VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {  

; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; %A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
br i1 undef, label %while.end, label %while.body.lr

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4 unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4 unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right
; register classes.
define void @autogen_SD4739(i8*)
{
;
CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:
;
 preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:
;
 preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}

$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef
define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2
define void @foo_i16() {
    entry:
    %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
    %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
    %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
    %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
    %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
    %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
    ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %\[[C1:const[0-9]?]\] = bitcast i32 805874816 to i32
; CHECK-DAG:  %\[[C2:const[0-9]?]\] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %\[[C2]\] to i32*
; CHECK-NEXT:  %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT:  %\[[M1:const_mat[0-9]?]\] = add i32 %\[[C2]\], 4
; CHECK-NEXT:  %2 = inttoptr i32 %\[[M1]\] to i32*
; CHECK-NEXT:  %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT:  %\[[M2:const_mat[0-9]?]\] = add i32 %\[[C2]\], 124
; CHECK-NEXT:  %4 = inttoptr i32 %\[[M2]\] to i32*
; CHECK-NEXT:  %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT:  %6 = inttoptr i32 %\[[C1]\] to i32*
; CHECK-NEXT:  %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT:  %\[[M3:const_mat[0-9]?]\] = add i32 %\[[C1]\], 8
; CHECK-NEXT:  %8 = inttoptr i32 %\[[M3]\] to i32*
; CHECK-NEXT:  %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT:  %\[[M4:const_mat[0-9]?]\] = add i32 %\[[C1]\], 12
; CHECK-NEXT:  %10 = inttoptr i32 %\[[M4]\] to i32*
; CHECK-NEXT:  %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
    entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
    ret void
}

1.1292 decamelize 2.0.0 2.0.0
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1.1293 listener-collection 1.2.0 1.2.0

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1.1294 convert-source-map 1.7.0 1.7.0

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1.1296 react-router 3.2.6 3.2.6

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1.1297 tough-cookie 2.3.4 2.3.4

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1.1298 read 1.0.7 1.0.7

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1.1299 strip-bom 2.0.0 2.0.0

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1.1300 jsreport-client 1.0.1 1.0.1

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1.1315 boost 1.60

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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.
AI 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. AI Dosser provided Alpha/OSF/1 code. He and
Dave Detlef(s@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(adc@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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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (d.g -at- cray.com) (See Boost list message of Sat, 28 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennady Rozental (rogieff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- g mail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University (
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jjarvari -at- osl.iiu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalelearsoftware.com) (See Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iiu.edu)
Jeremy Siek (jsiek@osl.iiu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
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* Frodo Looijaard
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* 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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Authors: Loren Merritt <lorenm@u.washington.edu>
Anton Mitrofanov <BugMaster@narod.ru>
Jason Garrett-Glaser <darkshikari@gmail.com>
Henrik Gramner <hengar-6@student.ltu.se>

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@gmail.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
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Keir Mierle <mierle@gmail.com>
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1.1324 static-eval 0.2.3 0.2.3

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1.1325 generate-function 2.0.0 2.0.0

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1.1326 jsreport-core 2.3.2 2.3.2

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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io.netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io.netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io.netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io.netty/handler/ssl/OpenSslKeyMaterial.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/ssl/Util/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-jar/io/netty/handler/ssl/SshHandler.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-
jar/io/netty/handler/traffic/package-info.java
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jar/io/netty/handler/traffic/TrafficCounter.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1.jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1.jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1.jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1.jar/io/netty/handler/ssl/Java9SslEngine.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1.jar/io/netty/handler/ssl/AbstractSniHandler.java
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072871132_1595214674.28/0/netty-handler-4-1-42-final-sources-1-
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1.1343 socket.io-parser 2.3.1 2.3.1

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1.1344 path-dirname 1.0.2 1.0.2

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1.1346 lucene-queryparser 7.4.0

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1.1357 source-map-support 0.4.18 0.4.18

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// This file was generated by gir (https://github.com/gtk-rs/gir)
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#[cfg(feature = "futures")]
use futures::future;

use gio_sys;

use glib::object::Cast;

use glib::object::IsA;

use glib::signal::connect_raw;

use glib::signal::SignalHandlerId;

use glib::translate::*;

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use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_{
use std::fmt;
use std::mem::transmute;
use std::ptr;
use Cancellable;
use Error;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    #![cfg(feature = "futures")]
    fn acquire_async_future(
        &self,
    ) -> Box<dyn future::Future<Output = Result<(), Error>> + std::marker::Unpin>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );
}
fn release_async_future(
    &self,
) -> Box<_dyn future::Future<
        Output = Result<(), Error>
    > + std::marker::Unpin>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) {
        let user_data: Box<Q> = Box::new(callback);
        unsafe extern "C" fn acquire_async_trampoline<
            Q: FnOnce(Result<(), Error>) + Send + 'static,
        >(  
            _source_object: *mut gobject_sys::GObject,
            res: *mut gio_sys::GAsyncResult,
            user_data: glib_sys::gpointer,
        ) {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }
}
Err(from_glib_full(error))
}
let callback: Box<Q> = Box::from_raw(user_data as *mut _);
callback(result);
}
let callback = acquire_async_trampoline::<Q>;
unsafe {
gio_sys::g_permission_acquire_async(
    self.as_ref().to_glib_none().0,
    cancellable.map(|p| p.as_ref()).to_glib_none().0,
    Some(callback),
    Box::into_raw(user_data) as *mut _,
);
}

#[cfg(feature = "futures")]
fn acquire_async_future(
    &self,
) -> Box<dyn future::Future<Output = Result<(), Error>> + std::marker::Unpin> {  
    use fragile::Fragile;
    use GioFuture;

    GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        let send = Fragile::new(send);
        obj.acquire_async(Some(&cancellable), move |res| {
            let _ = send.into_inner().send(res);
        });

        cancellable
    })
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}
fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box<Q> = Box::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), Error>) + Send + 'static,
    >(  
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
    );
}
user_data: glib_sys::gpointer,
) {
    let mut error = ptr::null_mut();
    let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
    let result = if error.is_null() {
        Ok(())
    } else {
        Err(from_glib_full(error))
    }
    let callback: Box<Q> = Box::from_raw(user_data as *mut _);
    callback(result);
}
let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref().to_glib_none()).0,
        Some(callback),
        Box::into_raw(user_data) as *mut _,
    );
}
}

#[cfg(feature = "futures")]
fn release_async_future(
    &self,
) -> Box<dyn future::Future<Output = Result<(), Error>> + std::marker::Unpin> {
    use fragile::Fragile;
    use GioFuture;

    GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        let send = Fragile::new(send);
        obj.release_async(Some(&cancellable), move |res| {
            let _ = send.into_inner().send(res);
        });
        cancellable
    })
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
        

let f: &F = &*(f as *const F);
f(&Permission::from_glib_borrow(this).unsafe_cast())
}

unsafe {
    let f: Box<_F> = Box::_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::allowed".as_ptr() as *const _,
        Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
        Box::_::into_raw(f),
    )
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
}

    unsafe {
        let f: Box<_F> = Box::_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-acquire".as_ptr() as *const _,
            Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
            Box::_::into_raw(f),
        )
    }

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-release\0".as_ptr() as *const _,
        Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

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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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concluded that weaker conditions might promote sharing better.

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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
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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
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Adam Crume <adamcrume@gmail.com>
Adolfo Ochagava <aochagavia92@gmail.com>
Andre Bogus <bogusandre@gmail.com>
Anton Konjahin <konjahin.ant@yandex.ru>
Arne Dussin <arne.dussin@live.de>
Boden Garman <bgarman@fastmail.fm>
Brian Kropf <brian.kropf@gmail.com>
Bryant Mairs <bryant@mai.rs>
Chris Greenaway <cjgreenaway@gmail.com>
Chris Palmer <pennstate5013@gmail.com>
Corey Farwell <coreyf@rwell.org>
Daniel Zalevskiy <dndanik@gmail.com>
David Li <li.davidm96@gmail.com>
Edward Shaw <edwardshaw9+git@gmail.com>
Edward Yang <edward.yang6771@gmail.com>
Espotion <esption@gmail.com>
Evgenii Pashkin <eapashkin@gmail.com>
Geoffrey French <frondit1985@gmail.com>
Gleb Kozyrev <gleb@koz.com>
Glenn Watson <gw@intuitionlibrary.com>
Google Inc.
Guillaume Gomez <guillaume1.gomez@gmail.com>
Gulshan Singh <gulshan@umich.edu>
Jakob Gillich <jakob@gillich.me>
James Shepherdson <james.shepherdson@gmail.com>
Jeremy Letang <letang.jeremy@gmail.com>
John Vrbanac <john.vrbanac@linux.com>
kennytm <kennytm@gmail.com>
Laurence Tratt <laurie@tratt.net>
Lionel Flandrin <lionel.flandrin@gmail.com>
Lucas Werkmeister <mail@lucasswerkmeister.de>
Lukas Diekmann <lukas.diekmann@gmail.com>
Mathijs Henquet <mathijs.henquet@gmail.com>
Maxwell Koo <mjkoo90@gmail.com>
mitaa <mitaa.ceb@gmail.com>
Nick Herman <gerkola@gmail.com>
Nicolas Koch <nioko1337@gmail.com>
Oliver Schneider <github333195615777966@oli-obk.de>
mer Sinan Aacan <omeragacan@gmail.com>
Ralph Giles <giles@thaumas.net>
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1.1363 babel-plugin-syntax-exponentiation-operator 6.13.0 6.13.0

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1.1377 javax-el 2.2.4
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1.1378 libjpeg 1.4.2 0ubuntu3.3

1.1378.1 Available under license:

Description: add LGPL2.1 license for debian dir

---
COPYING | 167 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 167 insertions(+)

--- /dev/null
+++ b/COPYING
@@ -0,0 +1,167 @@
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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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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1.1411 esprima 1.2.2 1.2.2

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1.1434 hoek 4.2.1 4.2.1

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1.1435 gauge 2.7.4 2.7.4

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1.1448 lodash.debounce 4.0.8 4.0.8

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
* 
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/.c.

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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement the <code>Replaceable</code> in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */

public abstract class Permission implements Guard, Serializable {
public Permission(String name) { }

public final String getName() { return null; }

public void checkGuard(Object obj) throws SecurityException { }

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);
}

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1.1501 https-proxy-agent 2.2.4 2.2.4

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https-proxy-agent

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

### An HTTP(s) proxy `http.Agent` implementation for HTTPS

[![Build Status](https://travis-ci.org/TooTallNate/node-https-proxy-agent.svg?branch=master)](https://travis-
This module provides an `http.Agent` implementation that connects to a specified HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
-------------

Install with `npm`:

``` bash
$ npm install https-proxy-agent
```

Examples
--------

#### `https` module example

``` js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
```
```js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);
var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
  console.log('"open" event!');
  socket.send('hello world');
});

socket.on('message', function (data, flags) {
  console.log('"message" event! %j %j', data, flags);
  socket.close();
});
```

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].
The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:

* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If `https:`, then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

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* /opt/ws_local/PERMITS_SQL/1050207517_1592830565.18/0/https-proxy-agent-2-2-4-tgz/package/README.md

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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
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1.1503 async 2.1.2 2.1.2

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1.1504 jsreport-text 2.0.0 2.0.0

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1.1505 jsreport-chrome-pdf 1.2.1 1.2.1

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1.1513 run-async 2.4.0 2.4.0

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1.1516 apr 1.6.5

1.1517 metrics-servlets 3.1.0

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1.1520 jline 2.9
1.1521 babel-helper-hoist-variables 6.24.1

6.24.1

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1.1522 babel-plugin-transform-strict-mode

6.24.1 6.24.1

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1.1525 gir1.2-gdkpixbuf-2.0 2.32.2-1ubuntu1.6

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1.1566 native-promise-only 0.8.1 0.8.1

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1.1567 has-color 0.1.7 0.1.7

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1.1568 jul-to-slf4j 1.7.5

1.1569 jsreport-scripts 2.0.8 2.0.8

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