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Contents

1.1 aopalliance-repackaged 2.3.0
1.2 Apache Log4j 1.2.17
   1.2.1 Available under license
1.3 apache-log4j 1.2.16
   1.3.1 Available under license
1.4 bcpkix-jdk15on 1.51
1.5 bcprov-jdk15on 1.51
   1.5.1 Available under license
1.6 c3p0 0.9.1.1
   1.6.1 Available under license
1.7 Commons Lang 2.6
   1.7.1 Available under license
1.8 Commons Lang 3.1
   1.8.1 Available under license
1.9 Commons Logging 1.2
   1.9.1 Available under license
1.10 Commons Logging 1.1.1
   1.10.1 Available under license
1.11 commons-beanutils 1.9.3
   1.11.1 Available under license
1.12 commons-codec 1.9
   1.12.1 Available under license
1.13 commons-codec 1.6
   1.13.1 Available under license
1.14 commons-collections 3.2.2
   1.14.1 Available under license
1.15 commons-io 1.3.2
   1.15.1 Available under license
1.16 commons-lang 2.6
   1.16.1 Available under license
1.17 commons-lang3 3.1
   1.17.1 Available under license
1.18 hk2-api 2.3.0
1.19 hk2-locator 2.3.0-b10
   1.19.1 Available under license
1.20 hk2-utils 2.3.0
1.21 HttpClient 4.2.5
   1.21.1 Available under license
1.22 httpclient 4.3.2
   1.22.1 Available under license
1.23 HttpCore 4.3.2
   1.23.1 Available under license
1.24 HttpCore 4.2.4
   1.24.1 Available under license
1.25 jackson-annotations 2.9.0
   1.25.1 Available under license
1.26 jackson-core 2.9.5
   1.26.1 Available under license
1.27 jackson-core-asl 1.9.13
   1.27.1 Available under license
1.28 jackson-databind 2.9.5
   1.28.1 Available under license
1.29 jackson-dataformat-yaml 2.5.4
   1.29.1 Available under license
1.30 jackson-dataformat-yaml 2.9.5
   1.30.1 Available under license
1.31 jackson-mapper-asl 1.9.13
   1.31.1 Available under license
1.32 Java Servlet API 3.1.0
   1.32.1 Available under license
1.33 javassist 3.18.1-GA
   1.33.1 Available under license
1.34 javax.annotation-api 1.2
   1.34.1 Available under license
1.35 javax.inject 2.3.0
1.36 javax.mail 1.5.4  
   1.36.1 Available under license
1.37 javax.ws.rs-api 2.0.1  
   1.37.1 Available under license
1.38 jersey-client 2.12  
   1.38.1 Available under license
1.39 jersey-common 2.12  
1.40 jersey-guava 2.12  
1.41 jettison 1.3.1  
   1.41.1 Available under license
1.42 json 2.0131114E7  
   1.42.1 Available under license
1.43 log4j 1.2.17  
   1.43.1 Available under license
1.44 miglayout 3.5.5  
   1.44.1 Available under license
1.45 osgi-resource-locator 1.0.1  
   1.45.1 Available under license
1.46 quartz 2.1.7  
   1.46.1 Available under license
1.47 SLF4J API Module 1.5.8  
   1.47.1 Available under license
1.48 slf4j-api 1.7.7  
   1.48.1 Available under license
1.49 slf4j-log4j12 1.7.7  
   1.49.1 Available under license
1.50 slf4j-log4j12 1.5.8  
   1.50.1 Available under license
1.51 snakeyaml 1.18  
1.52 stateless4j 2.5.0  
   1.52.1 Available under license
1.53 stax-api 1.0.1  
   1.53.1 Available under license
1.54 thrift 0.9.1  
   1.54.1 Available under license
1.55 thrift-libthrift 0.9.1  
   1.55.1 Available under license
1.56 xalan 2.7.0  
   1.56.1 Available under license
1.57 Xalan Java 2.7.2
  1.57.1 Available under license

1.58 Xalan Java Serializer 2.7.2

1.59 XML Commons External Components XML APIs 1.0.b2
  1.59.1 Notifications
  1.59.2 Available under license

1.60 xml-apis 1.3.04
  1.60.1 Available under license

maraina

2.1 apt 1.2.20
  2.1.1 Available under license

2.2 arptables 0.0.3.4-1
  2.2.1 Available under license

2.3 blackbox_exporter 0.4.0
  2.3.1 Available under license

2.4 ca-certificates 20170717 :16.04.1
  2.4.1 Available under license

2.5 cloud-init 17.1.46 :g7acc9e68-0ubuntu1~16.04.1
  2.5.1 Available under license

2.6 collectd 5.7.1
  2.6.1 Available under license

2.7 commons 1.0.0

2.8 consul 0.8.1
  2.8.1 Available under license

2.9 consul-cli 0.2.0
  2.9.1 Available under license

2.10 consul-template 0.18.2
  2.10.1 Available under license

2.11 dnsmasq 2.75 :1ubuntu0.16.04.3
  2.11.1 Available under license

2.12 dumb-init 1.0.0
  2.12.1 Available under license

2.13 font-awesome 4.7.0
  2.13.1 Available under license

2.14 fonts-dejavu 2.35 :1
  2.14.1 Available under license

2.15 fping 3.13-1
  2.15.1 Available under license

2.16 gdisk 1.0.1 :1build1
2.16.1 Available under license

2.17 grafana 5.1.4
   2.17.1 Available under license

2.18 haproxy 1.7.5-2ppa1~xenial
   2.18.1 Available under license

2.19 hatop 0.7.7-1 :1
   2.19.1 Available under license

2.20 HdrHistogram 2.1.8
   2.20.1 Available under license

2.21 inetutils-ping 2:1.9.4-1
   2.21.1 Available under license

2.22 ipvsadm 1:1.28-3
   2.22.1 Available under license

2.23 javassist 3.20.0
   2.23.1 Available under license

2.24 javolution 5.5.1

2.25 Jdiameter 1.5.1.24
   2.25.1 Available under license

2.26 Jinja2 2.8 :1
   2.26.1 Available under license

2.27 jna 4.1.0
   2.27.1 Available under license

2.28 kafka_2.11-100 2.11-1.0.0
   2.28.1 Available under license

2.29 keepalived 1.2.24.0
   2.29.1 Available under license

2.30 keepalived 2.0.8
   2.30.1 Available under license

2.31 LatencyUtils 2.0.3
   2.31.1 Available under license

2.32 lettuce 4.2.0
   2.32.1 Available under license

2.33 lksctp-tools 1.0.16+dfsg :2
   2.33.1 Available under license

2.34 MarkupSafe 0.23
   2.34.1 Available under license

2.35 meld3 1.0.2
   2.35.1 Available under license

2.36 memcached 1.4.25
2.36.1 Available under license

**2.37 Mongo DB 3.4.3**  
2.37.1 Available under license

**2.38 Mongo java Driver 3.2.2**  
2.38.1 Available under license

**2.39 mongo-java-driver 3.7.1**  
2.39.1 Available under license

**2.40 mongoddb 3.4.5**  
2.40.1 Available under license

**2.41 mongoddb 3.2.10**  
2.41.1 Available under license

**2.42 netcat 1.10 :40**  
2.42.1 Available under license

**2.43 netty 4.0.36**  
2.43.1 Available under license

**2.44 nginx 1.11.12**  
2.44.1 Available under license

**2.45 node-exporter_cps 0.16.0**  
2.45.1 Available under license

**2.46 node_exporter 0.14.0**  
2.46.1 Available under license

**2.47 ntpstat 0.0.0.1 :1**  
2.47.1 Available under license

**2.48 ohc-core 0.4.2**  
2.48.1 Available under license

**2.49 open-vm-tools 2-10.0.7-3227872-5ubuntu1~16.04.1**  
2.49.1 Available under license

**2.50 owner 1.0.9**  
2.50.1 Available under license

**2.51 p7zip 9.20.1~dfsg.1 :4**  
2.51.1 Available under license

**2.52 pamtester 0.1.2 :2**  
2.52.1 Available under license

**2.53 parallel 2.0141022E7**  
2.53.1 Available under license

**2.54 pcap4j 1.6.0**  
2.54.1 Available under license

**2.55 perl-base 5.22.1 :9**  
2.55.1 Available under license
2.56 perl-modules 5.22.1 :9
   2.56.1 Available under license
2.57 picocontainer 2.13.5
2.58 prometheus 1.6.3
   2.58.1 Available under license
2.59 prometheus 2.3.1
   2.59.1 Available under license
2.60 pwauth 2.3.11 :0.1
   2.60.1 Available under license
2.61 py-vconnector 0.4.6
2.62 python 2.7.12
   2.62.1 Available under license
2.63 python-dotenv 0.6.4
   2.63.1 Available under license
2.64 python-minimal 2.7.11 :1
   2.64.1 Available under license
2.65 python-pkg-resources 20.7.0 :1
   2.65.1 Available under license
2.66 python3.5/readline 3.5.2 :2~16.01
   2.66.1 Available under license
2.67 pyvmomi 6.5.0
   2.67.1 Available under license
2.68 rssh 2.3.4 :4
   2.68.1 Available under license
2.69 rxjava 1.1.0
   2.69.1 Available under license
2.70 sctp 1.7.8
   2.70.1 Available under license
2.71 sctp-netty 2.1.7.5
   2.71.1 Available under license
2.72 smistrip 0.4.8+dfsg2 :11
   2.72.1 Available under license
2.73 snmp-mibs-downloader 1.1
   2.73.1 Available under license
2.74 sssd 1.13.4 :1ubuntu1.6
   2.74.1 Available under license
2.75 telnet 0.17 :40
   2.75.1 Available under license
2.76 ttyd master :tsl0922
2.76.1 Available under license

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   2.78.1 Available under license

2.79 vsphere-automation-sdk-python 6.5.0
   2.79.1 Available under license

2.80 weave 1.9.4
   2.80.1 Available under license

2.81 weave/test/assert.sh 1.9.4
   2.81.1 Available under license

2.82 zulu8 8.20.0.5
   2.82.1 Available under license

1.1 aopalliance-repackaged 2.3.0

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1.4 bcpkix-jdk15on 1.51

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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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1.28 jackson-databind 2.9.5

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**1.38 jersey-client 2.12**

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1.44 miglayout 3.5.5

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1.45 osgi-resource-locator 1.0.1

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1.47 SLF4J API Module 1.5.8

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1.48 slf4j-api 1.7.7

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 *
 */

package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing {link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {link IMarkerFactory} instance bound at compile time.
 *
 * <p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G\uuml;lc\u00fc
 */

class MarkerFactory {
static IMarkerFactory markerFactory;

private MarkerFactory() {
}

static {
try {
    markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
} catch (NoClassDefFoundError e) {
    markerFactory = new BasicMarkerFactory();
} catch (Exception e) {
    // we should never get here
    Util.report("Unexpected failure while binding MarkerFactory", e);
}
}

/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound {@link IMarkerFactory}instance.
 *
 * @param name
 *          The name of the {@link Marker} object to return.
 * @return marker
 */
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 *
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the {@link IMarkerFactory}instance in use.
 *
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 *
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

1.49 slf4j-log4j12 1.7.7
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1.51 snakeyaml 1.18

1.52 stateless4j 2.5.0

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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
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lib/csharp/src/Transport/TServerSocket.cs
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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

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menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

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

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

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work) run the object code and to modify the work, including scripts to
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2.12 dumb-init 1.0.0

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2.13 font-awesome 4.7.0

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2.15 fping 3.13-1

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2.21 inetutils-ping 2:1.9.4-1

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Version 3, 29 June 2007

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2.22 ipvsadm 1:1.28-3

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ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/
for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling make install in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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2.25 Jdiameter 1.5.1.24

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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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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Version 1.1

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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 the 'antlr.*' to the 'clover.antlr.*'. 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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The primary ANTLR guy:

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

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

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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.lowagie' to 'clover.com.lowagie'. 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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File: Core.js

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
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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 'org.apache.velocity' to 'clover.org.apache.velocity'. 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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2.28 kafka_2.11-100 2.11-1.0.0

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Jan Holmberg, <jan@artech.net> :
o Memory framework
o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
o MISC checker redesign
o Scheduler framework extension to support child process handling.
Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at lwt.eu>:
- Extended VRRP framework to support floating priority.

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Jan Holmberg, <jan@artech.net>:
- Memory framework
- HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
- MISC checker redesign
- Scheduler framework extension to support child process handling.
- Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
o Extended VRRP framework to support floating priority.

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2.31 LatencyUtils 2.0.3

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2.32 lettuce 4.2.0

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- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

2.36 memcached 1.4.25

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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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A light-weight compression algorithm. It is designed for speed of compression and decompression, rather than for the utmost in space savings.

For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first using BMDiff and then compressing the output of BMDiff with Snappy.

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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------------------------------------------------
mgo - MongoDB driver for Go

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BSON library for Go

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------------------------------------------------
tomb - support for clean goroutine termination in Go.

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A light-weight compression algorithm. It is designed for speed of compression and decompression, rather than for the utmost in space savings.

For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first using BMDiff and then compressing the output of BMDiff with Snappy.

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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It was downloaded from http://www.mongodb.org

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2.42 netcat 1.10 :40
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2.43 netty 4.0.36

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Open-vm-tools v10.0.7

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
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>>> base64.c-none

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> convertutf.c/.h from unicode, inc.-none

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2.54 pcap4j 1.6.0

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2.55 perl-base 5.22.1

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cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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ext/FileCache/*
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ext/IPC-Open3/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
module-Build mailing list at <module-build@perl.org>,".
buildRequires:
File::Temp: 0.15
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necessary. Here a sample; alter the names:

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    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

------------------------------------------------------------------------
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013 */
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

   Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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Julian Seward, jseward@bzip.org
bzlib2/libbzip2 version 1.0.6 of 6 September 2010

---

abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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version: 3
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Go support for Protocol Buffers - Google's data interchange format

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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Go support for Protocol Buffers - Google's data interchange format

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2.60 pwauth 2.3.11 :0.1

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2.61 py-vconnector 0.4.6

2.62 python 2.7.12

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--- robotparser.py

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```

# subprocess - Subprocesses with accessible I/O streams
#
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#
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Mersenne Twister

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

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

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Sockets
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MD5 message digest algorithm
----------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

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

http://www.ietf.org/rfc/rfc1321.txt

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

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

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

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UUencode and UUdecode functions

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

XML Remote Procedure Calls

The :mod:`xmlrpclib` module contains the following notice::

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test_epoll

---------

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Select kqueue
-------------

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005 */
Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/
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/*
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# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
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/* microprotocols.c - minimalist and non-validating protocols implementation */

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#Table version:   1.0
#Table format: Format A
#Date:        2005-10-25
#Authors:    Marc-Andre Lemburg <mal@egenix.com>
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/* .................................................................

unicodedata -- Provides access to the Unicode 5.1 data base.
Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. L"wis (martin@v.loewis.de)

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/*                                                                            */
/* /* Random objects */                                                      */
/*                                                                            */
/*                                                                            */
/* The code in this module was based on a download from:                    */
/* http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html              */
/*                                                                            */
/* It was modified in 2002 by Raymond Hettinger as follows:                 */
/*                                                                            */
/*                                                                            */
* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped in python calling/return code.

* genrand_int32() and the helper functions, init_genrand() and init_by_array(), were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

* unused functions from the original were deleted. 
  new, original C python code was added to implement the Random() interface.

The following are the verbatim comments from the original code:

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

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

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# Module Name: dbShelve.py
#
# Description: A reimplementation of the standard shelve.py that
# forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
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#  --  Gregory P. Smith <greg@krypto.org>
#
#$Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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

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2.65 python-pkg-resources 20.7.0 :1

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

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

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

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

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

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

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Mersenne Twister

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The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

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

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

   Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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

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Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.
Keywords: programming, library, lib, commandline, options
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these
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The “source code” for a work means the preferred form of the work for making modifications to it. "Object code” means any non-source form of a work.

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#!/bin/bash
# assert.sh 1.1 - bash unit testing framework
# Copyright (C) 2009-2015 Robert Lehmann
#
# http://github.com/lehmannro/assert.sh
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export DISCOVERONLY=${DISCOVERONLY:-}
export DEBUG=${DEBUG:-}
export STOP=${STOP:-}
export INvariant=${INvariant:-}
export CONTINUE=${CONTINUE:-}

args="$(getopt -n "$0" -l \
  verbose,help,stop,discover,invariant,continue vhxdic $*)" \\ 
  || exit -1
for arg in $args; do 
  case "$arg" in 
  -h) 
    echo "$0 [-vxidc]" \
    echo " "sed 's/./ /g' <<< "$0" "[-h] [--help]"
    exit 0;;
  --help)
    cat <<EOF
Usage: $0 [options]
Language-agnostic unit tests for subprocesses.

Options:
-v, --verbose    generate output for every individual test case
-x, --stop       stop running tests after the first failure
-i, --invariant  do not measure timings to remain invariant between runs
-d, --discover   collect test suites only, do not run any tests
-c, --continue   do not modify exit code to test suite status
-h               show brief usage information and exit
--help           show this help message and exit
EOF
    exit 0;;
  -v|--verbose)
    DEBUG=1;;
  -x|--stop)
    STOP=1;;
  -i|--invariant)
    INvariant=1;;
  -d|--discover)
    DISCOVERONLY=1;;
  -c|--continue)
    CONTINUE=1;;
  esac 
done
_indent=$'\n't # local format helper

_assert_reset() {
  tests_ran=0
  tests_failed=0
  tests_errors=
  tests_starttime="$(date +%s%N)" # nanoseconds_since_epoch
}

assert_end() {
  # assert_end [suite ..]
  tests_endtime="$(date +%s%N)"
  # required visible decimal place for seconds (leading zeros if needed)
  tests_time="$($(<<<"%010d" $(($tests_endtime/1000000000)
                  - $(tests_starttime/1000000000)))")" # in ns
  tests="$tests_ran $*:+$* tests"
  [[ -n "$SDISCOVERONLY" ]] && echo "collected $tests." && _assert_reset && return
  [[ -n "$DEBUG" ]] && echo
  # to get report_time split tests_time on 2 substrings:
  # $ tests_time:0:$#tests_time] - seconds
  # $ tests_time:$#tests_time] - milliseconds
  [[ -z "$INVARIANT" ]] \\n    && report_time=" in $(printf\n          tests_time:0:$#tests_time] - seconds
  \n    "$tests_time:$#tests_time] - milliseconds"
  && report_time=" in $tests_time:0:$#tests_time].$tests_time:$#tests_time]s" \n    || report_time=
  if [[ "$tests_failed" -eq 0 ]]; then
    echo "all $tests passed$report_time."
  else
    for error in "$tests_errors[@]"; do echo "$error"; done
    echo "$tests_failed of $tests failed$report_time."
  fi
  tests_failed_previous=$tests_failed
  [[ $tests_failed -gt 0 ]] && tests_suite_status=1
  _assert_reset
}

assert() {
  # assert <command> <expected stdout> [stdin]
  (( tests_ran++ )) : 
  [[ -z "$SDISCOVERONLY" ]] || return
  expected=$(echo -ne "$expected"
  result="$(eval 2>/dev/null $result <<< "$result")"
  if [[ "$result" == "$expected" ]]; then
    echo "all $tests passed$report_time."
  else
    for error in "$tests_errors[@]"; do echo "$error"; done
    echo "$tests_failed of $tests failed$report_time."
  fi
  tests_failed_previous=$tests_failed
  [[ $tests_failed -gt 0 ]] && tests_suite_status=1
  _assert_reset
}

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[[ -z "$result" ]] && result="nothing" || result="\"$result\""
[[ -z "$2" ]] && expected="nothing" || expected="\"$2\"

_assert_fail "expected $expected${_indent}got $result" "$1" "$3"

assert_raises() {
    # assert_raises <command> <expected code> [stdin]
    (( tests_ran++ )) "
    [[ -z "$DISCOVERONLY" ]] "
    status=0
    (eval $1 <<< $(3:-) > /dev/null 2>&1 "
    expected=${2:-0}
    if [[ "$status" -eq "$expected" ]]; then
        _assert_fail "program terminated with code $status instead of $expected" "$1" "$3"
    fi

_assert_fail() {
    # _assert_fail <failure> <command> <stdin>
    [[ -n "$DEBUG" ]] "
    report="test #$tests_ran "$2${3:+ <<< $3}" failed:${_indent}$1"
    if [[ [[ "$STOP" ]] ]]; then
        [[ -n "$DEBUG" ]] "
        echo "$report"
        exit 1
    fi
    tests_errors[[tests_failed]]="$report"
    (( tests_failed++ )) "
}

skip_if() {
    # skip_if <command ..>
    (eval $@) > /dev/null 2>&1 "
    [[ "$status" -eq 0 ]] "
    skip
}

skip() {
    # skip  (no arguments)
    shopt -q extdebug && tests_extdebug=0 "
    shopt -q -o errexit && tests_errexit=0 "
    # enable extdebug so returning 1 in a DEBUG trap handler skips next command
    shopt -s extdebug
    # disable errexit (set -e) so we can safely return 1 without causing exit
    set +o errexit
    tests_trapped=0
}
trap _skip DEBUG
}

_skip() {
    if [[ $tests_trapped -eq 0 ]]; then
        # DEBUG trap for command we want to skip. Do not remove the handler
        # yet because *after* the command we need to reset extdebug/errexit (in
        # another DEBUG trap.)
        tests_trapped=1
        [[ -z "$DEBUG" ]] || echo -n s
        return 1
    else
        trap - DEBUG
        [[ $tests_extdebug -eq 0 ]] || shopt -u extdebug
        [[ $tests_errexit -eq 1 ]] || set -o errexit
        return 0
    fi
}

_assert_reset
: ${tests_suite_status:=0}  # remember if any of the tests failed so far
_assert_cleanup() {
    local status=$?
    # modify exit code if it's not already non-zero
    [[ $status -eq 0 && -z $CONTINUE ]] && exit $tests_suite_status
} trap _assert_cleanup EXIT

2.82 zulu8 8.20.0.5

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Version 2, June 1991

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888  8  888 .d8' Y888..8P
888  8 88800o88P '8888'
888  8 888 .8PY888.
`88. .8' 888  d8' `888b
`YbodP  o888o  o888o o88888o
```

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