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This package was debianized by Eric Evans <eevans@apache.org> on  
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Upstream Author: Cassandra Developers <cassandra-dev@incubator.apache.org>

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## 1.7 argparse 1.3.0

### 1.7.1 Available under license :

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

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

#### History

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

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

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

#### A. HISTORY OF THE SOFTWARE

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

principal author, although it includes many contributions from others.

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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## 1.13 Bean Validation API 1.1.0.Final

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# 1.14 bind-utils 9.8.2 :0.17.rc1.el6\_4.4

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-->

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

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

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

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

```

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

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
  </xsl:text>

```

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```

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

```

```

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

```

```

</xsl:stylesheet>

```

```

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

```

-->

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

## 1.15 bootstrap 3.1.1 :3.1.1

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/\*!

\* Bootstrap v3.1.1 (<http://getbootstrap.com>)

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## 1.16 bootstrap-datetimepicker 3.1.2

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## 1.17 bootstrap-multiselect 0.9.10

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# 1.18 bootstrap-select 1.5.4

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## 1.23 cassandra-driver-core 2.1.5

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## 1.37 commons-csv 1.1

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src/test/resources/CSVFileParser/bom.csv

src/test/resources/CSVFileParser/test.csv

src/test/resources/CSVFileParser/test\_default.txt

src/test/resources/CSVFileParser/test\_default\_comment.txt

src/test/resources/CSVFileParser/test\_rfc4180.txt

src/test/resources/CSVFileParser/test\_rfc4180\_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

src/test/resources/CSVFileParser/testCSV85\_default.txt

src/test/resources/CSVFileParser/testCSV85\_ignoreEmpty.txt

These files are used as test data and test result specifications.

## 1.38 commons-httpclient 3.1

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```

```
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```
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```

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```
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```

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

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## 1.50 DataTables 1.10.4

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## 1.51 dialog 1.492 :2014/02/19



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#
# Please send patches with a ChangeLog entry to config-patches@gnu.org.
#
# Configuration subroutine to validate and canonicalize a configuration type.
# Supply the specified configuration type as an argument.
```

```
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob\_plain;f=config.sub;hb=HEAD
```

## 1.52 dmidecode 2.12

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# 1.58 ejml 0.24

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 *
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 */
```

```
package org.ejml;
```

```
import org.ejml.data.DenseMatrix64F;
```

```
import java.util.Arrays;
```

```
import java.util.Comparator;
```

```
/**
```

```
 * Various functions that are useful but don't have a clear location that they belong in.
```

```
 *
```

```
 * @author Peter Abeles
```

```
 */
```

```
public class UtilEjml {
```

```
    /**
```

```
     * Version string used to indicate which version of EJML is being used.
```

```
     */
```

```

public static String VERSION = "0.24";

/**
 * Default tolerance.
 */
public static double TOLERANCE = 1e-8;

public static double EPS = Math.pow(2,-52);

public static boolean isUncountable( double val ) {
    return Double.isNaN(val) || Double.isInfinite(val);
}

public static void memset( double[] data , double val ) {
    for( int i = 0; i < data.length; i++ ) {
        data[i] = val;
    }
}

public static void memset( double[] data , double val , int length ) {
    for( int i = 0; i < length; i++ ) {
        data[i] = val;
    }
}

public static void memset( int[] data , int val , int length ) {
    for( int i = 0; i < length; i++ ) {
        data[i] = val;
    }
}

public static <T> void setnull( T[] array ) {
    for( int i = 0; i < array.length; i++ ) {
        array[i] = null;
    }
}

public static double max( double array[], int start , int length ) {
    double max = array[start];
    final int end = start+length;

    for( int i = start+1; i < end; i++ ) {
        double v = array[i];
        if( v > max ) {
            max = v;
        }
    }
}

```



```

    return max;
}

/**
 * Give a string of numbers it returns a DenseMatrix
 */
public static DenseMatrix64F parseMatrix( String s , int numColumns )
{
    String []vals = s.split("(\\s)+");

    // there is the possibility the first element could be empty
    int start = vals[0].isEmpty() ? 1 : 0;

    // covert it from string to doubles
    int numRows = (vals.length-start) / numColumns;

    DenseMatrix64F ret = new DenseMatrix64F(numRows,numColumns);

    int index = start;
    for( int i = 0; i < numRows; i++ ) {
        for( int j = 0; j < numColumns; j++ ) {
            ret.set(i,j, Double.parseDouble(vals[ index++ ]));
        }
    }

    return ret;
}

public static Integer[] sortByIndex( final double []data , int size ) {
    Integer[] idx = new Integer[size];
    for( int i = 0; i < size; i++ ) {
        idx[i] = i;
    }

    Arrays.sort(idx, new Comparator<Integer>() {
        @Override public int compare(final Integer o1, final Integer o2) {
            return Double.compare(data[o1], data[o2]);
        }
    });

    return idx;
}
}
<!--
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~
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~

```

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-->

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
  "http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<body>
```

A fast and easy to use dense matrix linear algebra library written in Java.

Efficient Java Matrix Library (EJML) is a linear algebra library for manipulating dense matrices. Its design goals are; 1) to be as computationally efficient as possible for both small and large matrices, and 2) to be accessible to both novices and experts. These goals are accomplished by dynamically selecting the best algorithms to use at runtime and by designing a clean API. EJML is free, written in 100% Java and has been released under an LGPL license.

```
</body>
```

```
</html>
```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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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 therefore falls outside the scope of this License.

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

When a "work that uses the Library" uses material from a header file

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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@ignore

@c Set file name and title for man page.

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@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@item

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

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}  
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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

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

@smallexample

```
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ```about box```.

You should also get your employer (if you work as a programmer) or school, if any, to sign a ```copyright disclaimer``` for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see `@url{http://www.gnu.org/licenses/}`.

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU GENERAL PUBLIC LICENSE
@center Version 2, June 1991

@c This file is intended to be included in another file.
```

```
@display
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
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@page

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@end smallexample

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

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

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

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

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

@c man end

## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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```
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```

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

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## 1.69 gdal 1.9.2

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gdal/frmts/gtiff/tif\_float.c  
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gdal/ogr/ogrsf\_frmts/dxf/intronurbs.cpp

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/\* Skeleton interface for Bison's Yacc-like parsers in C

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## 1.70 gdal\_scripts 1.9.2

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## 1.77 greenlet 0.4.5 :1.e16

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## 1.79 Guava: Google Core Libraries for Java

### 18.0

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```
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Willy Tarreau - w@1wt.eu

## 1.81 haproxy 1.5.3-1 :2014/07/25

### 1.81.1 Available under license :

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## 1.82 hello.js 1.4.1

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# Jackson JSON processor

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

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

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

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It is currently developed by a community of developers, as well as supported  
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## 1.114 jackson-module-jsonSchema 2.4.3

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# 1.117 Java Image-Scaling Library (imgscalr)

## 4.2 :4

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# 1.131 jersey-common 2.22.2

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/**  
 * Utf8 Appendable abstract base class
```

\*  
 \* This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8 encoded bytes, that are converted into characters.  
 \*  
 \* This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is appended to the string buffer.  
 \*  
 \* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by  
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// Hugues Malphettes - initial API and implementation

// =====

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# 1.159 jQuery.BigText 0.1.6

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```
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# 1.174 jzmq 2.2.2 :February 16, 2013

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```

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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.
- o 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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## 1.176 libsvm 3.17

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## 1.178 libzmq3 3.2.3

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Version 3, 29 June 2007

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## 1.179 log4j-api 2.0.1

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from EventLogger.java

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*/
```

<snip>

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## 1.190 mibble-parser 2.7.1

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao\_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port



17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntprtrace utility
39. [42]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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  48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  49. [53]Michael Shields <shields@tembel.org> USNO clock driver
  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
- 

## References

1. [mailto:%20takao\\_abe@xurb.jp](mailto:%20takao_abe@xurb.jp)
2. [mailto:%20mark\\_andrews@isc.org](mailto:%20mark_andrews@isc.org)
3. <mailto:%20altmeier@atsoft.de>
4. <mailto:%20vbais@mailman1.intel.co>
5. <mailto:%20kirkwood@striderfm.intel.com>
6. <mailto:%20michael.barone@lmco.com>
7. <mailto:%20karl@owl.HQ.ileaf.com>
8. <mailto:%20greg.brackley@bigfoot.com>
9. <mailto:%20Marc.Brett@westgeo.com>
10. <mailto:%20Piete.Brooks@cl.cam.ac.uk>
11. <mailto:%20nelson@bolyard.me>
12. <mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca>
13. <mailto:%20reg@dwf.com>
14. <mailto:%20clift@ml.csiro.au>
15. <mailto:casey@csc.co.za>
16. [mailto:%20Sven\\_Dietrich@trimble.COM](mailto:%20Sven_Dietrich@trimble.COM)
17. <mailto:%20dundas@salt.jpl.nasa.gov>
18. <mailto:%20duwe@immd4.informatik.uni-erlangen.de>
19. <mailto:%20dennis@mrbill.canet.ca>
20. <mailto:%20jhay@icomtek.csir.co.za>
21. <mailto:%20davehart@davehart.com>
22. <mailto:%20neoclock4x@linum.com>
23. <mailto:%20glenn@herald.usask.ca>
24. <mailto:%20iglesias@uci.edu>
25. <mailto:%20jagubox.gsfc.nasa.gov>
26. <mailto:%20bjb@chatham.usdesign.com>

27. mailto:Hans.Lambermont@nl.origin-it.com  
28. mailto:H.Lambermont@chello.nl  
29. mailto:%20phk@FreeBSD.ORG  
30. http://www4.informatik.uni-erlangen.de/%7ekardel  
31. mailto:%20kardel(at)ntp(dot)org  
32. mailto:%20jones@hermes.chpc.utexas.edu  
33. mailto:%20dkatz@cisco.com  
34. mailto:%20leres@ee.lbl.gov  
35. mailto:%20lindholm@ucs.ubc.ca  
36. mailto:%20louie@ni.umd.edu  
37. mailto:%20thorinn@diku.dk  
38. mailto:%20mayer@ntp.org  
39. mailto:%20mills@udel.edu  
40. mailto:%20moeller@gwdgv1.dnet.gwdg.de  
41. mailto:%20mogul@pa.dec.com  
42. mailto:%20tmoore@fielvel.daytonoh.ncr.com  
43. mailto:%20kamal@whence.com  
44. mailto:%20derek@toybox.demon.co.uk  
45. mailto:%20d@hd.org  
46. mailto:%20neal@ntp.org  
47. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de  
48. mailto:%20dirce@zk3.dec.com  
49. mailto:%20wsanchez@apple.com  
50. mailto:%20mrapple@quack.kfu.com  
51. mailto:%20jack@innovativeinternet.com  
52. mailto:%20schnittz@unipress.com  
53. mailto:%20shields@tembel.org  
54. mailto:%20pebbles.jpl.nasa.gov  
55. mailto:%20harlan@pfcs.com  
56. mailto:%20ken@sdd.hp.com  
57. mailto:%20ajit@ee.udel.edu  
58. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp  
59. mailto:%20vixie@vix.com  
60. mailto:%20Ulrich.Windl@rz.uni-regensburg.de  
/\* Skeleton implementation for Bison's Yacc-like parsers in C

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# 1.210 org.eclipse.persistence.jpa 2.4.2

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## 1.211 org.eclipse.persistence.jpa 2.5.0

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## 1.212 org.eclipse.persistence.jpa.jpql 2.5.0

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## 1.214 Papa Parse 4.1.0

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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```
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```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
return (strcmp(license, "GPL") == 0
```

```
|| strcmp(license, "GPL v2") == 0
```

```
|| strcmp(license, "GPL and additional rights") == 0
```

```
|| strcmp(license, "Dual BSD/GPL") == 0
```

```
|| strcmp(license, "Dual MIT/GPL") == 0
```

```
|| strcmp(license, "Dual MPL/GPL") == 0);
```

```
}
```

```
#endif
```

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would  
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Ralph Metzler <rjkm@metzlerbros.de>  
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Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>  
Dennis Noermann <dennis.noermann@noernet.de>  
Felix Domke <tmbinc@elitedvb.net>  
Florian Schirmer <jolt@tuxbox.org>  
Ronny Strutz <3des@elitedvb.de>  
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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>  
Roberto Ragusa <r.ragusa@libero.it>  
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Michael Dreher <michael@5dot1.de>  
Andreas 'randy' Weinberger  
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Kenneth Aafly <ke-aa@frisurf.no>  
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>  
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>

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for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>  
for the nxt2004 frontend driver

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*  
 \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
 \*  
 \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
 \*  
 \* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
 \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
 \* see init\_nicstar() for PHY initialization to change this. This driver  
 \* expects the Linux ATM stack to support scatter-gather lists  
 \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
 \*  
 \* Implementing minimal-copy of received data:  
 \* IDT always receives data into a small buffer, then large buffers  
 \* as needed. This means that data must always be copied to create  
 \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
 \* Fix is simple: make large buffers large enough to hold entire  
 \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
 \* copy small buffer contents to head of large buffer.  
 \* Trick is to avoid fragmenting Linux, due to need for a lot of large  
 \* buffers. This is done by 2 things:  
 \* 1) skb->destructor / skb->atm.recycle\_buffer  
 \* combined, allow nicstar\_free\_rx\_skb to be called to  
 \* recycle large data buffers  
 \* 2) skb\_clone of received buffers  
 \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
 \* details.  
 \*  
 \*  
 \*  
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 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*

\*/

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# 1.225 persistence-moxy 2.5.0

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## 1.227 phantomjs 1.9.1

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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.]

#### Preamble

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

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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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 on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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<signature of Ty Coon>, 1 April 1990  
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and

is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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- 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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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.

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 * Version 2.2.5 28 Jul 2012 Mark Adler
 */
```

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```
*/
/* yarn.h -- generic interface for thread operations
 * Copyright (C) 2008, 2011 Mark Adler
 * Version 1.3 13 Jan 2012 Mark Adler
 */
```

```
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## 1.231 postgresql93 9.3.11 :1PGDG.rhel6

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## 1.233 protobuf-java 2.5.0

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patch -p0 < psutils-copyright.patch
tar czf $archive_name psutils/
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

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## 1.238 Python Enum 0.4.4

### 1.238.1 Available under license :

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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  
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4.1	2005	PSF	yes

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```
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```

<signature of Ty Coon>, 1 April 1989

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```
# enum.py
```

```
# Part of enum, a package providing enumerated types for Python.
```

```
#
```

```
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## 1.239 python-argparse 1.2.1

**:9cbf4abe5aec05480e8fa320731236cf**

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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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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Homepage and documentation: <http://bottlepy.org/>

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## 1.244 python-crontab 1.9.1 :02 Jan 2015

### Martin Owens

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## 1.253 python-paste 1.7.5.1

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## 1.254 python-pip 1.3.1 :4.e16

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## 1.255 python-pip 6.0.6 :(2015-01-03)

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## 1.257 python-psutil 2.1.3

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

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2.1	2.0+1.6.1	2001	PSF	no
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## 1.259 python-six 1.9.0

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## 1.261 python2-pythondialog 3.0.1 :2013-11-01

### Florent Rougon

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That's all there is to it!

```
# demo.py --- Demonstration program and cheap test suite for pythondialog
#
# Copyright (C) 2002-2010, 2013 Florent Rougon
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#
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## 1.262 python2-redis 2.10.3

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

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(For example, a function in a library to compute square roots has

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

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(For example, a function in a library to compute square roots has



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

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

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

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(For 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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## 1.265 redis 0.12.1

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redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node\_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.

## ## Usage

Simple example, included as `examples/simple.js`:

```
```js
var redis = require("redis"),
    client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
  console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
  console.log(replies.length + " replies:");
  replies.forEach(function (reply, i) {
    console.log("  " + i + ": " + reply);
  });
  client.quit();
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
  0: hashtest 1
  1: hashtest 2
```

```
mjr:~/work/node_redis (master)$
```

## ## Performance

Here are typical results of `multi\_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hiredis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node\_redis` improves dramatically with pipelining, which happens automatically in most normal programs.

## ### Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an `args` Array plus optional `callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:

```
client.set("some key", "some val");
```

```
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {  
  // reply is null when the key is missing  
  console.log(reply);  
});
```

For a list of Redis commands, see [Redis Command Reference](http://redis.io/commands)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as `client.GET()`.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

# API

## Connection Events

`client` will emit some events about the state of the connection to the Redis server.

### "ready"

`client` will emit `ready` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready` event are queued, then replayed just before this event is emitted.

### "connect"

`client` will emit `connect` at the same time as it emits `ready` unless `client.options.no_ready_check` is set. If this options is set, `connect` will be emitted when the stream is connected, and then you are free to try to send commands.

### "error"

`client` will emit `error` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
```

```
  throw e;
```



^

```
Error: ECONNREFUSED, Connection refused
  at IOWatcher.callback (net:870:22)
  at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

``client`` will also emit ``error`` if an exception is thrown inside of ``node_redis`` for whatever reason. It would be nice to distinguish these two cases.

```
### "end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
### "drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
### "idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
## redis.createClient()
```

```
### overloading
```

```
* redis.createClient() = redis.createClient(6379, '127.0.0.1', {})
* redis.createClient(options) = redis.createClient(6379, '127.0.0.1', options)
* redis.createClient(unix_socket, options)
* redis.createClient(port, host, options)
```

If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

\* ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

\* ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

\* ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to

every command on a client.

\* ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the

cost of more latency. Most applications will want this set to `true`.

\* `socket\_keepalive` defaults to `true`. Whether the keep-alive functionality is enabled on the underlying socket.

\* `no\_ready\_check`: defaults to `false`. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, `node\_redis` has a "ready check" which sends the `INFO` command to the server. The response from the `INFO` command

indicates whether the server is ready for more commands. When ready, `node\_redis` emits a `ready` event.

Setting `no\_ready\_check` to `true` will inhibit this check.

\* `enable\_offline\_queue`: defaults to `true`. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting `enable\_offline\_queue` to `false` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

\* `retry\_max\_delay`: defaults to `null`. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting `retry\_max\_delay` limits delay

to maximum value, provided in milliseconds.

\* `connect\_timeout` defaults to `false`. By default client will try reconnecting until connected. Setting `connect\_timeout`

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.

\* `max\_attempts` defaults to `null`. By default client will try reconnecting until connected. Setting `max\_attempts` limits total amount of reconnects.

\* `auth\_pass` defaults to `null`. By default client will try connecting without auth. If set, client will run redis auth command on connect.

\* `family` defaults to `IPv4`. The client connects in IPv4 if not specified or if the DNS resolution returns an IPv4 address.

You can force an IPv6 if you set the family to 'IPv6'. See nodejs net or dns modules how to use the family type.

```
```js
var redis = require("redis"),
    client = redis.createClient({detect_buffers: true});

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print `<Buffer 4f 4b>`
});
client.end();
```
```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

```
## client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
## client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.set("foo_rand0000000000000", "some fantastic value");
client.get("foo_rand0000000000000", function (err, reply) {
  console.log(reply.toString());
});
client.end();
```
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
## client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an **experimental** feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will **NOT** work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()
```

```

/*
  Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
  would hang as long as the client-server connection is alive.
*/
client.unref()
client.get("foo", function (err, value){
  if (err) throw(err)
  console.log(value)
})
...

```

### ## Friendlier hash commands

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

#### ### client.hgetall(hash)

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis``. That way you can interact with the responses using JavaScript syntax.

Example:

```

client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
  console.dir(obj);
});

```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

#### ### client.hmset(hash, obj, [callback])

Multiple values in a hash can be set by supplying an object:

```

client.HMSET(key2, {
  "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
  "some manner of key": "a type of value"
});

```

The properties and values of this Object will be set as keys and values in the Redis hash.

#### ### client.hmset(hash, key1, val1, ... keyn, valn, [callback])

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

### ## Publish / Subscribe

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
  client2.publish("a nice channel", "I am sending a message.");
  client2.publish("a nice channel", "I am sending a second message.");
  client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
  console.log("client1 channel " + channel + ": " + message);
  msg_count += 1;
  if (msg_count === 3) {
    client1.unsubscribe();
    client1.end();
    client2.end();
  }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```
```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

### ## Subscriber Events

If a client has subscriptions active, it may emit these events:

```
### "message" (channel, message)
```

Client will emit `message` for every message received that matches an active subscription.

Listeners are passed the channel name as ``channel`` and the message Buffer as ``message``.

```
### "pmessage" (pattern, channel, message)
```

Client will emit ``pmessage`` for every message received that matches an active subscription pattern. Listeners are passed the original pattern used with ``PSUBSCRIBE`` as ``pattern``, the sending channel name as ``channel``, and the message Buffer as ``message``.

```
### "subscribe" (channel, count)
```

Client will emit ``subscribe`` in response to a ``SUBSCRIBE`` command. Listeners are passed the channel name as ``channel`` and the new count of subscriptions for this client as ``count``.

```
### "psubscribe" (pattern, count)
```

Client will emit ``psubscribe`` in response to a ``PSUBSCRIBE`` command. Listeners are passed the original pattern as ``pattern``, and the new count of subscriptions for this client as ``count``.

```
### "unsubscribe" (channel, count)
```

Client will emit ``unsubscribe`` in response to a ``UNSUBSCRIBE`` command. Listeners are passed the channel name as ``channel`` and the new count of subscriptions for this client as ``count``. When ``count`` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
### "punsubscribe" (pattern, count)
```

Client will emit ``punsubscribe`` in response to a ``PUNSUBSCRIBE`` command. Listeners are passed the channel name as ``channel`` and the new count of subscriptions for this client as ``count``. When ``count`` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
## client.multi([commands])
```

``MULTI`` commands are queued up until an ``EXEC`` is issued, and then all commands are run atomically by Redis. The interface in ``node_redis`` is to return an individual ``Multi`` object by calling ``client.multi()``.

```
```js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}

// multi chain with an individual callback
```

```

client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    // NOTE: code in this callback is NOT atomic
    // this only happens after the the .exec call finishes.
    client.mget(replies, redis.print);
  })
  .dbsize()
  .exec(function (err, replies) {
    console.log("MULTI got " + replies.length + " replies");
    replies.forEach(function (reply, index) {
      console.log("Reply " + index + ": " + reply.toString());
    });
  });
...

```

```

### Multi.exec( callback )

```

`client.multi()` is a constructor that returns a `Multi`` object. `Multi`` objects share all of the same command methods as `client`` objects do. Commands are queued up inside the `Multi`` object until `Multi.exec()` is invoked.

The `callback`` of `.exec()` will get invoked with two arguments:

- \* `err`` **type:** `null | Array`` `err` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT`` type of error originating from the `.exec()` itself.
- \* `results`` **type:** `null | Array`` `results` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI`` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```

``js
var redis = require("redis"),
    client = redis.createClient(), multi;

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {

```

```

    console.log(replies); // 101, 2
  });

  // you can re-run the same transaction if you like
  multi.exec(function (err, replies) {
    console.log(replies); // 102, 3
    client.quit();
  });
  ...

```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;

client.multi([
  ["mget", "multifoo", "multibar", redis.print],
  ["incr", "multifoo"],
  ["incr", "multibar"]
]).exec(function (err, replies) {
  console.log(replies);
});
```

```

### ## Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```

```js
var client = require("redis").createClient(),
    util = require("util");

client.monitor(function (err, res) {
  console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
  console.log(time + ": " + util.inspect(args));
});
```

```



```
});  
```
```

```
# Extras
```

Some other things you might like to know about.

```
## client.server_info
```

After the ready probe completes, the results from the INFO command are saved in the `client.server\_info` object.

The `versions` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version  
'2.3.0'  
> client.server_info.versions  
[ 2, 3, 0 ]
```

```
## redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
```js  
var redis = require("redis"),  
    client = redis.createClient();  
  
client.on("connect", function () {  
  client.set("foo_rand000000000000", "some fantastic value", redis.print);  
  client.get("foo_rand000000000000", redis.print);  
});  
```
```

This will print:

```
Reply: OK  
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
## redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js  
var redis = require("redis"),  
    client = redis.createClient();
```

```

redis.debug_mode = true;

client.on("connect", function () {
  client.set("foo_rand000000000000", "some fantastic value");
});
...

```

This will display:

```

mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
foo_rand000000000000
$20
some fantastic value

on_data: +OK

```

`send command` is data sent into Redis and `on\_data` is data received from Redis.

## Multi-word commands

To execute redis multi-word commands like `SCRIPT LOAD` or `CLIENT LIST` pass the second word as first parameter:

```

client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);

```

## client.send\_command(command\_name, args, callback)

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send\_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

## client.connected

Boolean tracking the state of the connection to the Redis server.

## client.command\_queue.length

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with ``client.command_queue`` though unless you really know what you are doing.

```
## client.offline_queue.length
```

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

```
## client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at ``250``.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional ``[WITHSCORES]`` or ``[LIMIT offset count]`` in the [\[redis.io/commands\]\(http://redis.io/commands\)](http://redis.io/commands) documentation.

Example:

```
```js
var args = [ 'myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine' ];
client.zadd(args, function (err, response) {
  if (err) throw err;
  console.log('added '+response+' items.');
```

  

```
  // -Infinity and +Infinity also work
  var args1 = [ 'myzset', '+inf', '-inf' ];
  client.zrevrangebyscore(args1, function (err, response) {
    if (err) throw err;
    console.log('example1', response);
    // write your code here
  });
```

  

```
  var max = 3, min = 1, offset = 1, count = 2;
  var args2 = [ 'myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count ];
  client.zrevrangebyscore(args2, function (err, response) {
    if (err) throw err;
    console.log('example2', response);
    // write your code here
  });
});
```
```

  

```
## TODO
```

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

### ## How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

### ## Contributors

Some people have added features and fixed bugs in `node\_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

- [Matt Ranney aka `mranney`](https://github.com/mranney)
- [Tim Smart aka `tim-smart`](https://github.com/tim-smart)
- [Tj Holowaychuk aka `visionmedia`](https://github.com/visionmedia)
- [rick aka `technoweenie`](https://github.com/technoweenie)
- [Orion Henry aka `orionz`](https://github.com/orionz)
- [Aivo Paas aka `aivopaas`](https://github.com/aivopaas)
- [Hank Sims aka `hanksims`](https://github.com/hanksims)
- [Paul Carey aka `paulcarey`](https://github.com/paulcarey)
- [Pieter Noordhuis aka `pietern`](https://github.com/pietern)
- [nithesh aka `nithesh`](https://github.com/nithesh)
- [Andy Ray aka `andy2ray`](https://github.com/andy2ray)
- [unknown aka `unknowdna`](https://github.com/unknowdna)
- [Dave Hoover aka `redsquirrel`](https://github.com/redsquirrel)
- [Vladimir Dronnikov aka `dvv`](https://github.com/dvv)
- [Umair Siddique aka `umairsiddique`](https://github.com/umairsiddique)
- [Louis-Philippe Perron aka `lp`](https://github.com/lp)
- [Mark Dawson aka `markdaws`](https://github.com/markdaws)
- [Ian Babrou aka `bobrik`](https://github.com/bobrik)
- [Felix Geisendoerfer aka `felixge`](https://github.com/felixge)
- [Jean-Hugues Pinson aka `undefined`](https://github.com/undefined)
- [Maksim Lin aka `maks`](https://github.com/maks)
- [Owen Smith aka `orls`](https://github.com/orls)
- [Zachary Scott aka `zzak`](https://github.com/zzak)
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- [David Trejo aka `DTrejo`](https://github.com/DTrejo)
- [Brian Noguchi aka `bnoguchi`](https://github.com/bnoguchi)
- [Philip Tellis aka `bluesmoon`](https://github.com/bluesmoon)

- [Marcus Westin aka `marcuswestin2`](https://github.com/marcuswestin2)
- [Jed Schmidt aka `jed`](https://github.com/jed)
- [Dave Peticolas aka `jdavis3`](https://github.com/jdavis3)
- [Trae Robrock aka `trobrock`](https://github.com/trobrock)
- [Shankar Karupiah aka `shankar0306`](https://github.com/shankar0306)
- [Ignacio Burgueño aka `ignacio`](https://github.com/ignacio)

Thanks.

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## 1.266 Redis 3.2.7

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## 1.267 Redis 2.8.6 :13 Feb 2014

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# this generates a redis config file and an /etc/init.d script, and installs them
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## 1.272 requests\_packages 2.5.1 :(2014-12-23)

### 1.272.1 Available under license :

Requests includes some vendored python libraries to ease installation.

Urllib3 License

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## 1.273 requests\_packages 2.5.0 :(2012-12-17)

### 1.273.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

Urllib3 License

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## 1.275 scrollspy.js 3.1.1

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## 1.277 ServiceLocator Default Implementation

### 2.4.0-b31

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## 1.278 setuptools 2.2

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

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.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 (see  
<http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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

| Release from   | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |

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## 1.279 Shiro-all 1.2.2

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The implementation for `org.apache.shiro.util.SoftHashMap` is based on initial ideas from Dr. Heinz Kabutz's publicly posted version available at <http://www.javaspecialists.eu/archive/Issue015.html>, with continued modifications.

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## 1.281 slf4j-api 1.7.5

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```
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*
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## 1.289 sysstat 9.0.4 :2009/07/19

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## 1.292 telnet 0.17 :22-Jul-2000

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#
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compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.l  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs

lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
test/ThriftTest.thrift

-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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```

-----  
For the compiler/cpp/src/md5.[ch] components:

/\*

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L. Peter Deutsch  
ghost@aladdin.com

\*/

-----  
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- jsp\_2\_2.xsd

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_web\_services\_1\_3.xsd

- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd

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*/

```

```

package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;

public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

        ZipFile file2;
        try { file2 = new ZipFile(args[1]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[1] + ": " + e); System.exit(1);
return; }

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set1 = new LinkedHashSet();
        for (Enumeration e = file1.entries(); e.hasMoreElements(); )
            set1.add(((ZipEntry)e.nextElement()).getName());

        Set set2 = new LinkedHashSet();
        for (Enumeration e = file2.entries(); e.hasMoreElements(); )
            set2.add(((ZipEntry)e.nextElement()).getName());

```

```

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

```

```

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];

```

```

byte[] buf2 = new byte[4096];
boolean done1 = false;
boolean done2 = false;

try
{
while (!done1)
{
int off1 = 0;
int off2 = 0;

while (off1 < buf1.length)
{
int count = stream1.read(buf1, off1, buf1.length - off1);
if (count < 0)
{
done1 = true;
break;
}
off1 += count;
}
while (off2 < buf2.length)
{
int count = stream2.read(buf2, off2, buf2.length - off2);
if (count < 0)
{
done2 = true;
break;
}
off2 += count;
}
if (off1 != off2 || done1 != done2)
return false;
for (int i = 0; i < off1; i++)
{
if (buf1[i] != buf2[i])
return false;
}
}
return true;
}
finally { stream1.close(); stream2.close(); }
}
}

```

# 1.315 zeromq 3.2.3

## 1.315.1 Available under license :

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# 1.316 zeromq 3.2.0

## 1.316.1 Available under license :

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Version 3, 29 June 2007

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## Welcome

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The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. 0MQ sockets provide an abstraction of asynchronous message queues, multiple messaging patterns, message filtering (subscriptions), seamless access to multiple transport protocols and more.

## Building and installation

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See the INSTALL file included with the distribution.

## Resources

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Extensive documentation is provided with the distribution. Refer to `doc/zmq.html`, or "man zmq" after you have installed 0MQ on your system.

Website: <http://www.zeromq.org/>

Development mailing list: [zeromq-dev@lists.zeromq.org](mailto:zeromq-dev@lists.zeromq.org)

Announcements mailing list: [zeromq-announce@lists.zeromq.org](mailto:zeromq-announce@lists.zeromq.org)

Git repository: <http://github.com/zeromq/libzmq>

0MQ developers can also be found on the IRC channel #zeromq, on the Freenode network ([irc.freenode.net](http://irc.freenode.net)).

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