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1.6 json-c 0.99.8

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1.7 idna 2.1

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* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/LICENSE.rst

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```python
import sys
from setuptools import setup
import io

version = "2.1"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import sys
from setuptools import setup
import io

version = "2.1"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import sys
from setuptools import setup
import io

version = "2.1"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```
arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': version,
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding='UTF-8').read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py

1.8 zlib 1.2.11

1.8.1 Available under license:

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

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1.10 dpkt 1.8.8

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1.11 enum34 1.1.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001
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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
*/
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1.19 redis 4.0.14

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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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1.27 iptables 1.6.2

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1.34 protobuf 3.6.1

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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

1.35 pcre 8.43
1.35.1 Available under license :
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THE BASIC LIBRARY FUNCTIONS
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1.36 dpkt 1.9.2
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PLY (Python Lex-Yacc) Version 3.9
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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document.

Requirements
==============

PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
==========

More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
==================

A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).  

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================

PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator
with variables.
# calc.py
#
# A simple calculator with variables.
#

tokens = (  
'NAME', 'NUMBER',  
'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',  
'LPAREN', 'RPAREN',  
)

# Tokens

t_PLUS = r'^\+^\n    t_MINUS = r'^\-'  
t_TIMES = r'^\*^\n    t_DIVIDE = r'^/\n    t_EQUALS = r'^=\n    t_LPAREN = r'^\('  
t_RPAREN = r'^\)'  
t_NAME = r'^[\-zA-Z_][a-zA-Z0-9_]^*$

def t_NUMBER(t):  
    r'^\d+$^\n    t.value = int(t.value)  
    return t

# Ignored characters

t_ignore = " ^t"

def t_newline(t):  
    r'^\n+$^\n    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character %s" % t.value[0])  
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lexer()  

# Precedence rules for the arithmetic operators
precedence = (  
('left','PLUS','MINUS'),  
('left','TIMES','DIVIDE'),  
('right','UMINUS'),  
)
# dictionary of names (for storing variables)
names = {}

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                | expression MINUS expression
                | expression TIMES expression
                | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \"%s\" \% p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at \"%s\" \% p.value")

import ply.yacc as yacc
yacc.yacc()
```
while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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@page
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1.41 dropbear 2017.75

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 * *
 * http://code.google.com/p/curve25519-donna/
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 * Adam Langley <agl@imperialviolet.org>
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
* More information about curve25519 can be found here
  * http://cr.yp.to/ecdh.html
* djb's sample implementation of curve25519 is written in a special assembly
  * language called qhasm and uses the floating point registers.
* This is, almost, a clean room reimplementation from the curve25519 paper. It
  * uses many of the tricks described therein. Only the crecip function is taken
  * from the sample implementation.
*/

1.42 libndp 1.7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Finally, every program is threatened constantly by software patents.
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make it effectively proprietary. To prevent this, the GPL assures that
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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### 1.45 python-pysnmp4-mibs 0.1.3

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1.46 libnsl 1.3.0

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Version 2.1, February 1999

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*/

Index: tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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23-June-2007

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

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Ty Coon, President of Vice

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

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

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

```bash
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:@(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$ (BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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1.54 tdb 1.44.1

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Metadata-Version: 1.1
Name: fysom
Version: 2.1.2
Summary: pYthOn Finite State Machine
Home-page: https://github.com/mriehl/fysom
Author: Mansour Behabadi, Jake Gordon, Maximilien Riehl, Stefano
Author-email: mansour@oxplot.com, jake@codeincomplete.com, maximilien.riehl@gmail.com,
License: MIT
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MIT licensed. All credits go to Jake Gordon for the `original javascript implementation <https://github.com/jakesgordon/javascript-state-machine/>`_
and to Mansour Behabadi for the `python port <https://github.com/oxplot/fysom>`_.

Synopsis
========

This is basically Mansour's implementation with unit tests and a build process added. It's also on PyPi (``pip install fysom``).
Fysom is built and tested on python 2.6 to 3.3 and PyPy.
::

    pip install fysom

Developer setup
-------------

This module uses `PyBuilder <http://pybuilder.github.io>`_.
::

    sudo pip install pyb_init
    pyb-init github mriehl : fysom

Running the tests
-----------------
::

    pyb verify

Generating and using a setup.py
-------------------------------
::

    pyb
    cd target/dist/fysom-$VERSION
    ./setup.py bdist_rpm #build RPM

Looking at the coverage
-----------------------
::

    pyb
    cat target/reports/coverage

USAGE
=====

Basics
------
::

    from fysom import Fysom
fsm = Fysom({ 'initial': 'green',
    'events': [
        {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
        {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
        {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
        {'name': 'clear', 'src': 'yellow', 'dst': 'green'] })

... will create an
object with a method for each event:

- fsm.warn() - transition from 'green' to 'yellow'
- fsm.panic() - transition from 'yellow' to 'red'
- fsm.calm() - transition from 'red' to 'yellow'
- fsm.clear() - transition from 'yellow' to 'green'

along with the following members:

- fsm.current - contains the current state
- fsm.isstate(s) - return True if state s is the current state
- fsm.can(e) - return True if event e can be fired in the current state
- fsm.cannot(e) - return True if event s cannot be fired in the current state

Shorter Syntax
--------------

It's possible to define event transitions as 3-tuples (event name, source state, destination state) rather than dictionaries. `Fysom` constructor accepts also keyword arguments `initial`, `events`, `callbacks`, and `final`.

This is a shorter version of the previous example::

    fsm = Fysom(initial='green',
                events=[('warn', 'green', 'yellow'),
                        ('panic', 'yellow', 'red'),
                        ('calm', 'red', 'yellow'),
                        ('clear', 'yellow', 'green')])

Initialization
--------------

How the state machine should initialize can depend on your application requirements, so the library provides a number of simple options.
By default, if you don't specify any initial state, the state machine will be in the 'none' state and you would need to provide an event to take it out of this state:

```python
fsm = Fysom({'events': [
    {'name': 'startup', 'src': 'none', 'dst': 'green'},
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green']})
print fsm.current # "none"
fsm.startup()
print fsm.current # "green"
```

If you specify the name of your initial event (as in all the earlier examples), then an implicit 'startup' event will be created for you and fired when the state machine is constructed:

```python
fsm = Fysom({'initial': 'green',
    'events': [
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green']})
print fsm.current # "green"
```

If your object already has a startup method, you can use a different name for the initial event:

```python
fsm = Fysom({'initial': {'state': 'green', 'event': 'init'},
    'events': [
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green']})
print fsm.current # "green"
```

Finally, if you want to wait to call the initial state transition event until a later date, you can defer it:

```python
fsm = Fysom({'initial': {'state': 'green', 'event': 'init', 'defer': True},
    'events': [
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green']})
print fsm.current # "none"
fsm.init()
p
print fsm.current # "green"
```

Of course, we have now come full circle, this last example pretty much functions the same as the first example in this section where you simply
define your own startup event.

So you have a number of choices available to you when initializing your state machine.

You can also indicate which state should be considered final. This has no effect on the state machine, but lets you use a shorthand method is_finished() that returns true if the state machine is in this 'final' state:

```python
fsm = Fysom({'initial': 'green',
             'final': 'red',
             'events': [
                 {'name': 'panic', 'src': 'green', 'dst': 'red'},
                 {'name': 'calm', 'src': 'red', 'dst': 'green'}])
print fsm.current # "green"
fsm.is_finished() # False
fsm.panic()
fsm.is_finished() # True
```

Dynamically generated event names
---------------------------------

Sometimes you have to compute the name of an event you want to trigger on the fly. Instead of relying on `getattr` you can use the `trigger` method, which takes a string (the event name) as a parameter, followed by any arguments/keyword arguments you want to pass to the event method. This is also arguably better if you're not sure if the event exists at all (FysomError vs. AttributeError, see below).

```python
from fysom import Fysom
fsm = Fysom({'initial': 'green',
             'events': [
                 {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
                 {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
                 {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
                 {'name': 'clear', 'src': 'yellow', 'dst': 'green'}])
fsm.trigger('warn', msg="danger") # equivalent to fsm.warn(msg="danger")
fsm.unknown() # FysomError, event does not exist
fsm.unknown() # AttributeError, event does not exist
```
Multiple source and destination states for a single event
---------------------------------------------------------

::

fsm = Fysom({'initial': 'hungry',
    'events': [
        {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
        {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
        {'name': 'eat', 'src': 'full', 'dst': 'sick'},
        {'name': 'rest', 'src': ['hungry', 'satisfied', 'full', 'sick'], 'dst': 'hungry']})

This example will create an object with 2 event methods:

- fsm.eat()
- fsm.rest()

The rest event will always transition to the hungry state, while the eat event will transition to a state that is dependent on the current state.

NOTE the rest event in the above example can also be specified as multiple events with the same name if you prefer the verbose approach.

NOTE if an event can be triggered from any state, you can specify it using the '*' wildcard, or even by omitting the src attribute from its definition:

::

fsm = Fysom({'initial': 'hungry',
    'events': [
        {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
        {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
        {'name': 'eat', 'src': 'full', 'dst': 'sick'},
        {'name': 'eat_a_little', 'src': '*', 'dst': 'sick'},
        {'name': 'rest', 'dst': 'hungry']})

NOTE if an event will not change the current state, you can specify destination using the '=' symbol. It's useful when using wildcard source or multiply sources:

::

fsm = Fysom({'initial': 'hungry',
    'events': [
        {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
        {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
        {'name': 'eat', 'src': 'full', 'dst': 'sick'},
        {'name': 'eat_a_little', 'src': '*', 'dst': '='},
        {'name': 'eat_a_little', 'src': ['full', 'satisfied'], 'dst': '='},
        {'name': 'eat_a_little', 'src': 'hungry', 'dst': '='},
        {'name': 'rest', 'dst': 'hungry']})
Callbacks
---------

5 callbacks are available if your state machine has methods using the following naming conventions:

- `onbefore\_event\_` - fired before the *event*
- `onleave\_state\_` - fired when leaving the old *state*
- `onenter\_state\_` - fired when entering the new *state*
- `onreenter\_state\_` - fired when reentering the old *state* (a reflexive transition i.e. src == dst)
- `onafter\_event\_` - fired after the *event*

You can affect the event in 2 ways:

- return False from an `onbefore\_event\_` handler to cancel the event.
  This will raise a fysom.Canceled exception.
- return False from an `onleave\_state\_` handler to perform an asynchronous state transition (see next section)

For convenience, the 2 most useful callbacks can be shortened:

- `on\_event\_` - convenience shorthand for `onafter\_event\_`
- `on\_state\_` - convenience shorthand for `onenter\_state\_`

In addition, a generic `onchangestate()` callback can be used to call a single function for all state changes.

All callbacks will be passed one argument ‘e’ which is an object with following attributes:

- `fsm` Fysom object calling the callback
- `event` Event name
- `src` Source state
- `dst` Destination state
- (any other keyword arguments you passed into the original event method)
- (any positional argument you passed in the original event method, in the ‘args’ attribute of the event)

Note that when you call an event, only one instance of ‘e’ argument is created and passed to all 4 callbacks. This allows you to preserve data across a state transition by storing it in ‘e’. It also allows you to shoot yourself in the foot if you’re not careful.

Callbacks can be specified when the state machine is first created:
def onpanic(e):
    print 'panic! ' + e.msg
def oncalm(e):
    print 'thanks to ' + e.msg + ' done by ' + e.args[0]
def ongreen(e):
    print 'green'
def onyellow(e):
    print 'yellow'
def onred(e):
    print 'red'

fsm = Fysom({'initial': 'green',
             'events': [
                {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
                {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
                {'name': 'clear', 'src': 'yellow', 'dst': 'green'}],
             'callbacks': 
                {'onpanic': onpanic,
                 'oncalm': oncalm,
                 'ongreen': ongreen,
                 'onyellow': onyellow,
                 'onred': onred} })

fsm.panic(msg='killer bees')
fsm.calm('bob', msg='sedatives in the honey pots')

Additionally, they can be added and removed from the state machine at any time:
::

def printstatechange(e):
    print 'event: %s, src: %s, dst: %s' % (e.event, e.src, e.dst)

del fsm.ongreen
del fsm.onyellow
del fsm.onred
fsm.onchangestate = printstatechange

Asynchronous state transitions
-------------------------------

Sometimes, you need to execute some asynchronous code during a state transition and ensure the new state is not entered until you code has completed.

A good example of this is when you run a background thread to download something as result of an event. You only want to transition into the new state after the download is complete.
You can return False from your onleave\_state\_handler and the state machine will be put on hold until you are ready to trigger the transition using the transition() method.

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1.56 tftpy 0.6.1
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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1.67 six 1.10.0-8.ph2
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1.68 linenoise 1.0.0
1.68.1 Available under license :
No license file was found, but licenses were detected in source scan.

/* linenoise.h -- guerrilla line editing library against the idea that a
 * line editing lib needs to be 20,000 lines of C code.
 * *
 * See linenoise.c for more information.
 *
 * *-----------------------------------------------------------------
 *
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/linenoise_c/linenoise.h
No license file was found, but licenses were detected in source scan.

OASISFormat: 0.4
Name:       linenoise
Version:     0.1
Synopsis:    A small readline replacement
Authors:     Katherine Whitlock
License:     BSD-3-clause
Plugins:     META(0.4)

Library linenoise
Path:       .
BuildTools: ocamlbuild
CSources:  linenoise_stubs.c, linenoise_c/linenoise.c, linenoise_c/linenoise.h, headers/complex_stubs.h, headers/cstubs_internals.h, headers/managed_buffer_stubs.h,headers/primitives.h, headers/raw_pointer.h, headers/type_info_stubs.h, headers/unsigned_stubs.h
BuildDepends: ctypes.foreign, ctypes.stubs, core, threads
Modules:    Linenoise_bindings, Linenoise
Install:        true

SourceRepository head
Type:       git
Location: https://github.com/brick-lang/linenoise-ml
Browser:   https://github.com/brick-lang/linenoise-ml

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/.oasis
No license file was found, but licenses were detected in source scan.

/* linenoise.c -- guerrilla line editing library against the idea that a
* line editing lib needs to be 20,000 lines of C code.
*  
*  * You can find the latest source code at:
*  *  http://github.com/antirez/linenoise
Does a number of crazy assumptions that happen to be true in 99.9999% of the 2010 UNIX computers around.

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

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References:
- http://invisible-island.net/xterm/ctlseqs/ctlseqs.html

Todo list:
- Filter bogus Ctrl+<char> combinations.
- Win32 support
- Bloat:
- History search like Ctrl+r in readline?
- List of escape sequences used by this program, we do everything just
with three sequences. In order to be so cheap we may have some
flickering effect with some slow terminal, but the lesser sequences
the more compatible.

* **CHA (Cursor Horizontal Absolute)**
  * Sequence: ESC \[ n G
  * Effect: moves cursor to column \( n \)

* **EL (Erase Line)**
  * Sequence: ESC \[ n K
  * Effect: if \( n = 0 \) or missing, clear from cursor to end of line
  * Effect: if \( n = 1 \), clear from beginning of line to cursor
  * Effect: if \( n = 2 \), clear entire line

* **CUF (Cursor Forward)**
  * Sequence: ESC \[ n C
  * Effect: moves cursor forward of \( n \) chars

When multi line mode is enabled, we also use an additional escape
sequence. However multi line editing is disabled by default.

* **CUU (Cursor Up)**
  * Sequence: ESC \[ n A
  * Effect: moves cursor up of \( n \) chars.

* **CUD (Cursor Down)**
  * Sequence: ESC \[ n B
  * Effect: moves cursor down of \( n \) chars.

The following are used to clear the screen:

* ESC \[ H ESC \[ 2 J
  * This is actually composed of two sequences:

* **cursorhome**
  * Sequence: ESC \[ H
  * Effect: moves the cursor to upper left corner

* **ED2 (Clear entire screen)**
  * Sequence: ESC \[ 2 J
  * Effect: clear the whole screen

Found in path(s):

```
*/
```

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gz/brick-lang-linenoise-ml-923ca3c/headers/raw_pointer.h
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targ-
gz/brick-lang-linenoise-ml-923ca3c/headers/complex_stubs.h
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targ-
gz/brick-lang-linenoise-ml-923ca3c/headers/primitives.h
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targ-
gz/brick-lang-linenoise-ml-923ca3c/headers/type_info_stubs.h
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targ-
gz/brick-lang-linenoise-ml-923ca3c/headers/managed_buffer_stubs.h
* /opt/ws_local/PERMITS_SQL/1064480664_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-targ-
gz/brick-lang-linenoise-ml-923ca3c/headers/unsigned_stubs.h

1.69 strongswan 5.7.2

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1.71 pyzmq 22.2.1

1.71.1 Available under license:

wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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1.77 protobuf-to-dict 0.1.0

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Metadata-Version: 1.1
Name: protobuf-to-dict
Version: 0.1.0
Summary: A teeny Python library for creating Python dicts from protocol buffers and the reverse. Useful as an intermediate step before serialisation (e.g. to JSON).
Home-page: https://github.com/benhodgson/protobuf-to-dict
from setuptools import setup

setup(
    name='protobuf-to-dict',
    description='A teeny Python library for creating Python dicts from ' 
    'protocol buffers and the reverse. Useful as an intermediate step' 
    'before serialisation (e.g. to JSON).',
    version='0.1.0',
    author='Ben Hodgson',
    author_email='ben@benhodgson.com',
    url='https://github.com/benhodgson/protobuf-to-dict',
    license='Public Domain',
    keywords=['protobuf', 'json', 'dict'],
    install_requires=['protobuf>=2.3.0'],
    package_dir={'':'src'},
    py_modules=['protobuf_to_dict'],
    setup_requires=['protobuf>=2.3.0', 'nose>=1.0', 'coverage', 'nosexcover'],
    test_suite = 'nose.collector',
    classifiers=[
        'Programming Language :: Python',
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
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1.78 pam 1.5.1

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