Open Source Used In
collectorless_solarwinds 2.0.0

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1.1 debianutils 4.9.1
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Email local part: ph10
Email domain: cam.ac.uk

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

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019
1.11 audit 2.8.5-2ubuntu6

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1.22 libquadmath 10.3.0-1ubuntu1~20.04
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1.23 collectorless-client 3.0.0
1.23.1 Available under license:

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```python
from setuptools import find_packages, setup

setup(name='collectorless-client',
      version='2.5.1',
      description='NMS Query System for upload to Cisco NP',
      url='https://gitlab-sjc.cisco.com/eti/collectorless-nms-connector',
      author='Cisco Systems',
      author_email='nbenouss@cisco.com',
      license='Proprietary',
      install_requires=[
        'jsonschema==3.2.0',
        'PyYAML==5.1.2',
        'requests==2.25.1',
        'urllib3==1.26.3',
        'scp==0.13.2',
        'paramiko==2.7.1'
      ],
      extras_require={
        ':python_version < "3.7"': [
          'dataclasses==0.8',
        ],
      },
      package_data={
        "collectorless_client": [
      },
      packages=find_packages(),
      python_requires='>=3.6',
      )
```

Found in path(s):

* /opt/cola/permits/1204809228_1632138387.91/0/collectorless-client-master0b86ebb2684-zip/setup.py

1.24 python-requests 2.22.0

1.24.1 Available under license:

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1.25 attr 2.4.48-5

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# Constant-time SSSE3 AES core implementation.

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

---

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1.39 libalgorithm-diff-xs-perl 0.04-6

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---
abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
name: Algorithm-Diff-XS
no_index:
directory:
  - inc
  - t
requires:
  Algorithm::Diff: 1.19
NAME
Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not
very well-known Algorithm::LCS with a drop-in interface that simply
re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment,
which means only "compact_diff" will get significantly faster for large
data sets, while "diff" and "sdiff" will run in identical speed as
"Algorithm::Diff".

BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>--</td>
</tr>
<tr>
<td>806/s</td>
<td>5402%</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
  'Algorithm::Diff' => sub { Algorithm::Diff::compact_diff(@data) },
  'Algorithm::Diff::XS' => sub { Algorithm::Diff::XS::compact_diff(@data) },
});
```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

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'GNU lesser public license' => 'gpl', 1,
'BSD license' => 'bsd', 1,
'proprietary' => 'proprietary', 0,

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Found in path(s):
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=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

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that simply re-uses the installed version of the L<Algorithm::Diff>
module.

Note that only the C<LCSidx> function is optimized in XS at the
moment, which means only C<compact_diff> will get significantly
faster for large data sets, while C<diff> and C<sdiff> will run
in identical speed as C<Algorithm::Diff>.
**BENCHMARK**

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>-- -98%</td>
</tr>
<tr>
<td>806/s</td>
<td>5402% --</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmptheses 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
};
```

**SEE ALSO**

L<Algorithm::Diff>, L<Algorithm::LCS>.

**AUTHORS**

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

**COPYRIGHT**

Copyright 2008 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.

Contains derived code copyrighted 2003 by Joe Schaefer, E<lt>joe+cpan@sunstarsys.comE<gt>.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

`cut`

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

/*
 *---------------------------------------------------------------------

 ppport.h -- Perl/Pollution/Portability Version 3.06_01

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=pod
=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.
OPTIONS

--help

Display a brief usage summary.

--patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

--copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither --patch nor --copy are given, the default is to simply print the diffs for each file. This requires either Text::Diff or a diff program to be installed.

--diff=I<program>

Manually set the diff program and options to use. The default is to use Text::Diff, when installed, and output unified context diffs.

--compat-version=I<version>

Tell ppport.h to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of ppport.h if you intend to be backward compatible only up to a certain Perl version.

--cplusplus

Usually, ppport.h will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs ppport.h to leave C++ comments untouched.

--quiet

Be quiet. Don't print anything except fatal errors.
=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier
versions of Perl, and that can't be provided using a macro, you have
to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by
C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions, you want either C<static> or global variants.

For a C<static> function, use:

    #define NEED_function

For a global function, use:

    #define NEED_function_GLOBAL

Note that you mustn't have more than one global request for one
function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>Function</td>
<td>NEED Macro</td>
<td>GLOBAL Macro</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED Sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the `DPPP_NAMESPACE` macro. Just define the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```bash
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```bash
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```bash
perl ppport.h --nochanges
```
You can specify a different `diff` program or options, using the `--diff` option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

To display portability information for the `newSVpvn` function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `<_nomg>` functions or

```perl
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

my %opt = (
    quiet    => 0,
    diag     => 1,
    hints    => 1,
    changes  => 1,
    cplusplus => 0,
    filter   => 1,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ ]";             # horizontal whitespace
eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
}

if ($@ and grep /^-/i, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.

  }
CX_CURPAD_SV||
CopFILEAV[5.006000]p
CopFILEGV_set[5.006000]p
CopFILEGV[5.006000]p
CopFILESV[5.006000]p
CopFILE_set[5.006000]p
CopFILE[5.006000]p
CopSTASHPV_set[5.006000]p
CopSTASHPV[5.006000]p
CopSTASH_eq[5.006000]p
CopSTASH_set[5.006000]p
CopSTASH[5.006000]p
CopyD[5.009002]p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV[5.004050]p
END_EXTERN_C[5.005000]p
ENTER||
ERRSV[5.004050]p
EXTEND||
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GIMME_V[5.004000]n
GIMME||n
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G_DISCARD||
G_EVAL||
G_NOARGS||
G_SCALAR||
G_VOID[5.004000]
GetVars||
GvSV||
Gv_AMupdate||
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PL_rs|n
PL_stack_base|5.004050|p
PL_stack_sp|5.004050|p
PL_stdingv|5.004050|p
PL_sv_arenaroot|5.004050|p
PL_sv_no|5.004050|pn
PL_sv_undef|5.004050|pn
PL_sv_yes|5.004050|pn
PL_tainted|5.004050|p
PL_tainting|5.004050|p
POPi|n
POPI|n
POPn|n
POPbbtex|5.007001|n
POPx|5.005030|n
POPs|n
POPs|n
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PTR2NV|5.006000|p
PTR2UV|5.006000|p
PTR2ul|5.007001|p
PTRV|5.006000|p
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PUSHi||
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PUSHp||
PUSHs||
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av_push
av_reify
av_shift
av_store
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av_unshift
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block_gimme
block_start
boolSV
boot_core_PerlIO
boot_core UNIVERSAL
boot_core xsutils
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call_body
call_list_body
call_list
call_method
call_pv
call_sv
calloc
cando
cast_i32
cast_iv
cast_ulong
cast_uv
check_uni
checkcomma
checkposixcc
ck_anoncode
ck_bitop
ck_concat
ck_defined
ck_delete
ck_die
ck_eof
ck_eval
ck_exec
ck_exists
ck_exit
ck_fst
ck_fun
ck_glob
ck_grep
ck_index
ck_join
ck_lengthconst
ck_fun
ck_listio
ck_match
ck_method
ck_null
ck_open
ck_repeat
ck_require
ck_retarget
ck_return
ck_rfun
ck_rvconst
ck_sassign
ck_select
ck_shift
ck_sort
ck_spair
ck_split
ck_subr
ck_substr
ck_svconst
ck_trunc
ck_unpack
cl_and
cl_anything
cl_init_zero
cl_init
cl_isanything
c1_or
closest_cop
convert
cop_free
cr_textfilter
croak_nocontext
do_trans_count||
do_trans_simple_utf8||
do_trans_simple||
do_trans||
do_vecget||
do_vecset||
do_vop||
docalcatch_body||
docalcatch||
doeval||
dofile||
dofindlabel||
doform||
doing_taint][5.008001]n
doopen_pm||
doparseform||
dopoptoeval||
dopoptolabel||
dopoptoloop||
dopoptosub_at||
dopoptosub||
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dump_all][5.006000] dump_eval][5.006000] dump_fds||
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gv_fetchsv[5.009002]


gv_fullname3[5.004000]

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gv_init


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gv_stashsv


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hek_dup

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is_utf8_print|5.006000|
is_utf8_punct|5.006000|
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is_utf8_stringLocator|5.009003|
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is_utf8_upper|5.006000|
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isa_lookup||
items||n
ix||n
jmaybe||
keyword||
leave_scope||
lex_end||
lex_start||
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listkids||
list||
load_module_nocontext||vn
load_module|5.006000|
localize||
looks_like_number||
lop||
mPUSH|5.009002|
p
mPUSHn|5.009002|
p
mPUSHp|5.009002|
p
mPUSHu|5.009002|
p
mXPUSH|5.009002|
p
mXPUSHn|5.009002|
p
mXPUSHp|5.009002|
p
mXPUSHu|5.009002|
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magic_clear_all_env||
magic_clearenv||
magic_clearpack||
magic_clearsig||
magic_dump|5.006000|
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newXSproto
newXS
new_collate
new_constant
new_ctype
new_logop
pad_sv
pad_swipe
pad_tidy
pad_undef
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parse_unicode_opts
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peep
pending_ident
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perl_alloc
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perl_clone
perl_construct
perl_destruct
perl_free
perl_parse
perl_run
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ptr_table_clear
ptr_table_fetch
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
pv_display
pv_uni_display
qerror
re_croak2
re_dup
re_intuit_start
re_intuit_string
realloc
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);

$replace = 0;
$hint = '';
$replace = $1 if m{^\s*$rcce\s+Replace:\s+(\d+)\s+\$rcce\s+$};
$replace{$2} = $1 if $replace and m{^\s*$define\s+(\w+)\s+\$rcce\s+$};
$replace{$2} = $1 if m{^\s*$define\s+(\w+)\s+\$rcce\s+$};
$replace{$1} = $2 if m{^\s*$rcce\s+Replace\s+(\w+)\s+\$rcce\s+$};

if (m{^\s*$rcce\s+depends\s+on\s+(\w+)\s+\$rcce\s+$}) {
    push @{$depends{$1}}, map { s/\+/\$/; s/ /, /g; } split /,/, $2;
}

$need{$1} = 1 if m{^\s*$rcce\s+defined\(\$rcce\s+\)\s+\$rcce\s+$};

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "=== $f ===

";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
            print "Depends on: ", join( ', ', @{$depends{$f}} ), ",\n" if exists $depends{$f};
            print "Shints\{$f\}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available:\n";
        }
        $count++;
    }
    if ($count > 0) {
        print "\n";
    } else {
        print "Found no API matching $opt{'api-info'}:\n";
    }
    exit 0;
}

if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {

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die "No input files given\n";

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

  info("Scanning $filename ...");

  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);

  # temporarily remove C comments from the code
  my @ccom;
  $c =~ s{
    
    (\^[^'/\]+|
      (?:\^[\^'\]\]*(?::\^[\`'\]\]*[^\^'/\]+)+
      (?::[^'\]\]*[^'\]\]*[^\^'/\]+)+
    )|
    (/ (?:
        \^[^*]*\^*+(?::\^[^\cs]\^[^*]*\^*+)*
        / |
        /[\^\r\n]*
      ))
    )
    defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce";
  }egsx;

  $file{ccom} = \@ccom;
  $file{code} = $c;
  $file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);

  my $func;
for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ Ab(?!:Perl_)?($match)|/b) {  
    $file{uses_replace}{$func}++ if exists $revreplace{$func} && $c eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ AbPerl_$func|/b;
    if (exists $API{$func}{provided}) {
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        my @deps = rec_depend($func);
        for (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
      }
      if (exists $need{$func}) {
        $file{needs}{$func} = 'static';
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /b$func|/b) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}
while ($c =~ /^\*\*\*define\*\*define\*\*defineNEED_\((\w+?)\)\|GLOBAL\?)\|\b/mg) {
  if (exists $need{$_}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
  } else {
    warning("Possibly wrong #define $1 in $filename");
  }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @($global{$_}{$func}), $filename;
  }
}
$files{$filename} = \%file;
}
# Globally resolve NEED_’s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{'$need'}} > 1) {
        my @targets = @{$global{needs}{'$need'}};
        my @t = grep $files{$_}{needed_global}{'$need'}, @targets;
        @targets = @t if @t;
        @t = grep /\.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}{needs}{'$need'} = 'global';
        for (@{$global{needs}{'$need'}}) {
            $files{$_}{needs}{'$need'} = 'extern' if $_ ne $target;
        }
    }
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("== Analyzing $filename ==");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*([^aTHX_\?]+)\)?([^aTHX_\?]+)\)$\|}}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' ) . $2 }ge);  
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*([^aTHX_\?]+)\)?([^aTHX_\?]+)\)$\|}}{ $func$1()}g);
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*([^aTHX_\?]+)\)?([^aTHX_\?]+)\)$\|}}{ $func$1()}g);
        }
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}.");
    $file{changes} += ($c =~ s{\b$func\s*\(\s*([^aTHX_\?]+)\)?([^aTHX_\?]+)\)$\|}}{ $func$1()}g);
}
for $func (sort keys %{$file{uses}}) {
    next unless $file{uses}[$func];  # if it's only a dependency
    if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    } elsif (exists $replace{$func}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
    } else {
        diag("Uses $func");
    } hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    } if ($message) {
        diag($message);
diag($message);
$file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";

  for $func (sort keys %{$file{needs}})) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : ";
    unless (exists $file{"needed_${type}"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = ";
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"
)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^\S+\$\S+define\S+NEED_\w+.*/$1$pp/ms)
    || ($c =~ s/^\S+\$\S+include.*\Q$ppport\E.*?$LF//m)
    || ($c =~ s/^\S+\$\S+include.*XSUB.+\s+?$/\1$pp/m)
    || ($c =~ s/^/$pp/);
  }
  }
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^\S+\?\$\S+include.*\Q$ppport\E.*?$SLF//m);
  }
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} & $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                }
            }
        } elsif (exists $opt{changes}) {
            if (exists $opt{patch}) {
                unless ($patch_opened) {
                    if (open PATCH, ">$opt{patch}") {
                        $patch_opened = 1;
                    } else {
                        error("Cannot open '$opt{patch}' for writing: $!");
                        delete $opt{patch};
                        $opt{changes} = 1;
                    }
                }
            }
        }
    } else {
        warning("Generated output will be written to stdout");
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
}
mydiff(
$opt{diff})
{
  $diff = run_diff($opt{diff}, $file, $str);
}
if (!$defined $diff and can_use('Text::Diff'))
{
  $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
  --- $file
  +++ $file.patched
  HEADER
}
if (!$defined $diff)
{
  $diff = run_diff('diff -u', $file, $str);
}
if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  return;
}

print F $diff;

sub run_diff {

  my($prog, $file, $str) = @_;  
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
  my $diff = '';
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
      while (<F>) {
        s/Q$tmp\E/$file.patched/;
        $diff .= $_;
      }
      close F;
      unlink $tmp;
      return $diff;
    }
    unlink $tmp;
    return undef;
  }

  unlink $tmp;
}
else {
  error("Cannot open '$tmp' for writing: $!");
}

return undef;

sub can_use
{ eval "use @_;";
  return @{$eq ";
} }

sub rec_depend
{
  my $func = shift;
  my %seen;
  return () unless exists $depends{$func};
  grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;
  if ($ver =~ /^\d+.(\d+).\d+$/) { return ($1, $2, $3); }
  elsif ($ver !~ /\d+\.(\d.CONNECT\d)+$/) { die "cannot parse version \\
; }
  $ver =~ s/_//g;
  $ver =~ s/\$/$000000/;
  my($r,$v,$s) = $ver =~ /\d+\.\d+(\d+(\d+));
  $v = int $v;
  $s = int $s;
  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) { die "cannot parse version \\
; }
  }
  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;
  $ver =~ s/\$/$000000/;
  my($r,$v,$s) = $ver =~ /\d+\.(\d+)(\d+\d+);
$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'
    }
    $s /= 10;

    $ver = sprintf "%.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "._%02d", $s;

    return $ver;
}

return sprintf "%.%.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
$given_hints{$func}++ and return;
my $hint = $hints{$func};
$hint =~ s/\s{/   /mg;
print "   --- hint for $func ---\n", $hint;
}

sub usage
{
my ($usage) = do { local(@ARGV, $/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\s*perl\s+\S+/$^X $0/;
$usage =~ s/(\[A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

print <<<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.40 shadow 4.8.1-1ubuntu5.20.04.1
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$Id$
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
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1.42 perl 5.30.0-9ubuntu0.2

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  # Original Author: Harlan Stenn <harlan@mumps.pfcs.com>  
  #  
  # $Log: ernolist.a,v $  
  # Revision 3.0 1993/08/18 12:04:35 ram  
  # Baseline for dist 3.0 netwide release.
  #
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1.45 libfido2-1 1.3.1-1ubuntu2

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#
# `Diff` program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
# Altered to output in `context diff` format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [ {-c | -u}] [ {-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
   -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE

g getopt('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
   $opt_c = ""; # -c on if -C given on command line
   $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
   $opt_u = ""; # -u on if -U given on command line
   $opt_c = undef;
} else {
   $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
$Context_Lines = defined $opt_C ? $opt_C : 3;
$char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
$Context_Lines = defined $opt_U ? $opt_U : 3;
$char1 = '-' x 3; $char2 = '+' x 3;
}
# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;
open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;
# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;
my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";
my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
$hunk = new Hunk ($piece, $Context_Lines);
next unless $oldhunk;
if ($hunk->does_overlap($oldhunk)) {
$hunk->prepend_hunk($oldhunk);
} else {
$oldhunk->output_diff(\@f1, \@f2);
}
} continue {
$oldhunk = $hunk;
}
# print the last hunk

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sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk;

    sub new {
        # Arg1 is output from \&LCS::diff (which corresponds to one Block)
        # Arg2 is the number of items (lines, e.g..) of context around each block
        #
        # This subroutine changes $File_Length_Difference
        #
        # Fields in a Hunk:
        # blocks      - a list of Block objects
        # start       - index in file 1 where first block of the hunk starts
        # end         - index in file 1 where last block of the hunk ends
        #
        # Variables:
        # before_diff - how much longer file 2 is than file 1 due to all hunks
        # until but NOT including this one
        # after_diff  - difference due to all hunks including this one
        my ($class, $piece, $context_items) = @_; 

        my $block = new Block ($piece); # this modifies $FLD!
        my $before_diff = $File_Length_Difference; # BEFORE this hunk
        my $after_diff = $before_diff + $block->{"length_diff"};
        $File_Length_Difference += $block->{"length_diff"};

        # @remove_array and @insert_array hold the items to insert and remove
        # Save the start & beginning of each array. If the array doesn't exist
        # though (e.g., we're only adding items in this block), then figure
        # out the line number based on the line number of the other file and
        # the current difference in file lengths
        my @remove_array = $block->remove;
        my @insert_array = $block->insert;
        my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->{'item_no'} : -1;
$a2 = @remove_array ? $remove_array[-1]->{'item_no'} : -1;
$b1 = @insert_array ? $insert_array[0]->{'item_no'} : -1;
$b2 = @insert_array ? $insert_array[-1]->{'item_no'} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [
        $block,
    ],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->"start1";
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->"start1" -= $num_added;
    $hunk->"start2" -= $num_added;

    # context after
    my $end1 = $hunk->"end1";
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :
        $context_items;
    $hunk->"end1" += $num_added;
    $hunk->"end2" += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;  
    return "" unless $oldhunk;  # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->"start1" - $oldhunk->"end1") <= 1 ||
           $hunk->"start2" - $oldhunk->"end2" <= 1;
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;  
    $hunk->"start1" = $oldhunk->"start1";
    $hunk->"start2" = $oldhunk->"start2";

    unshift (@{ $hunk->"blocks" }, @{ $oldhunk->"blocks" });
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a `-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers--corresponding to positions in file *2*-- don't take
    # removed items into account.
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    my ($num_added, $num_removed) = (0, 0);
my @outlist = @fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context

foreach my $block (@{ $hunk->{"blocks"} }) {
    foreach my $item ($block->remove) {
        my $op = $item->{"sign"}; # -
        my $offset = $item->{"item_no"} - $low + $num_added;
        $outlist[$offset] =~ s/^/\n/$op/;
        $num_removed++;
    }
    foreach my $item ($block->insert) {
        my $op = $item->{"sign"}; # +
        my $i = $item->{"item_no"};
        my $offset = $i - $hunk->{"start2"} + $num_removed;
        splice(@outlist,$offset,0,\"$op\$fileref2[$i]\");
        $num_added++;
    }
}
map {s/$/\n/} @outlist; # add \n's
print @outlist;

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    print "***************\n";
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);
    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "*** $range1 ****\n";
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
        my @outlist = @fileref1[$low..$hi];
        map {s/^/ /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->{"item_no"} - $low] =~ s/^/\n/$op/;
            }
        }  
        map {s/$/\n/} @outlist; # add \n's
    }
}
print @outlist;

print "--- $range2 ----\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
  my @outlist = @$fileref2[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
      $outlist->{$item->{"item_no"} - $low} =~ s/^/$op/;
    }
  }
  map {s/$/\n/} @outlist; # add \n's
  print @outlist;
}

sub context_range {
  # Generate a range of item numbers to print. Only print 1 number if the range
  # has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_;  
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $range = ($start < $end) ? "$start,$end" : $end;
  return $range;
}

sub unified_range {
  # Generate a range of item numbers to print for unified diff
  # Print number where block starts, followed by number of lines in the block
  # (don't print number of lines if it's 1)
  my ($hunk, $flag) = @_;  
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $length = $end - $start + 1;
  my $first = $length < 2 ? $end : $start; # strange, but correct...
  my $range = $length== 1 ? "$first,$length" : "$first,\n$range; 
}

# Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign
- '+' for insert, '-' for remove
# item_no - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();
# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;
$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}
# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }
# Returns a list of the changes in this block that insert items

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sub insert { return grep {$_->{"sign"} eq ' + '} @{shift->{"changes"}}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithmdiff-perl-1-19-03-orig-1-targz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithmdiff-perl-1-19-03-orig-1-targz/Algorithm-Diff-1.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
# 'Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;
foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 );  # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = " ":
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d
", $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d
", $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---
";
        printf "%d,%dc%d,%d
", $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_"   for $diff->Items(1);
    print $sep;
    print "> $_"   for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw( 
    LCS LCS_length LCSidx 
    diff sdiff compact_diff 
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lc$ref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

   a b c d f g h j q z
and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I^S which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I^S to be as long as possible. In this case I^S is

a b c d f g j z

From there it's only a small step to get diff-like output:

e h i k q r x y
+ - + - + + + +

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

a x b y c z p d q
a b c a x b y c z

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

a x b y c z p d q
a b c a b y c z

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a b y c z>:

a x b y c z p d q
a b c a x b y c z

or

a x b y c z p d q
a b c a x b y c z

(See also the README file and several example scripts include with this module.)
This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{C<LCS>}, \texttt{C<LCS\_length>}, \texttt{C<LCSidx>}, \texttt{C<prepare>}, \texttt{C<diff>}, \texttt{C<sdiff>}, \texttt{C<traverse\_sequences>}, and \texttt{C<traverse\_balanced>}.

\texttt{C<LCS>}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<LCS>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
\end{verbatim}

Additional parameters, if any, will be passed to the key generation routine.

\texttt{C<LCS\_length>}

This is just like \texttt{C<LCS>} except it only returns the length of the longest common subsequence. This provides a performance gain of about 9\% compared to \texttt{C<LCS>}.

\texttt{C<LCSidx>}

Like \texttt{C<LCS>} except it returns references to two arrays. The first array contains the indices into \texttt{\@seq1} where the LCS items are located. The second array contains the indices into \texttt{\@seq2} where the LCS items are located.

Therefore, the following three lists will contain the same values:

\begin{verbatim}
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<new>}

\begin{verbatim}
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
\end{verbatim}
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ] Encloses optional arguments
  : Is followed by the default value for an optional argument
  | Separates alternate return results

Method summary:

$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

<bits> = $obj->Diffs( );
@items$cnt = $obj->Same( );
@items$cnt = $obj->Items( $seqNum );
@indexs $cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);  # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()-&gt;Reset($pos);
C\texttt{Copy}\> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

\begin{verbatim}
$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
\end{verbatim}

Here are two equivalent way to get a "reset" copy:

\begin{verbatim}
$copy = $diff->Copy();

$copy = $diff->Copy()->Reset();
\end{verbatim}

\texttt{C\textless Diff\textgreater}

\begin{verbatim}
$bits = $obj->Diff();
\end{verbatim}

\texttt{C\textless Diff\textgreater} returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

\begin{itemize}
  \item \texttt{3==(1|2)}. This hunk contains items from \@seq1 and the items from \@seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.
  \item \texttt{2}. This hunk only contains items from \@seq2 that should be inserted (not items from \@seq1). Only sequence 2 contains changed items so only the 2 bit is set.
  \item \texttt{1}. This hunk only contains items from \@seq1 that should be deleted (not items from \@seq2). Only sequence 1 contains changed items so only the 1 bit is set.
  \item \texttt{0}. This means that the items in this hunk are the same in both sequences.
\end{itemize}
Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren’t. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context). If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the following two snippets always return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?[0-9]+)?(min|max)[12]$/i
/^([range][12]?)?(same|diff|base)$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
Using $\text{C<Get>}$ in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$\text{prep} = \text{prepare}( \@seq1 );$
for Si ( 0 .. 10_000 )
{
    @lcs = LCS( $\text{prep}, \$seq[Si] );
    # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

$\text{prep} = \text{prepare}( \@seq1, \&keyGen );$
for Si ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[Si], $\text{prep}, \&keyGen );
    # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

@diffs = diff( \@seq1, \@seq2 );
$\text{diffs\_ref} = \text{diff}( \@seq1, \@seq2 );$

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of L<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be
empty.

Here is an example. Calling \texttt{C<diff>} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
(  
  [ [ '-', 0, 'a' ] ],
  [ [ '+', 2, 'd' ] ],
  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],
  [ [ '+', 6, 'k' ] ],
  [ [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'i' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ]
)
\end{verbatim}

There are five hunks here. The first hunk says that the \texttt{C<a>} at position 0 of the first sequence should be deleted (\texttt{C<->}). The second hunk says that the \texttt{C<d>} at position 2 of the second sequence should be inserted (\texttt{C<+>}). The third hunk says that the \texttt{C<h>} at position 4 of the first sequence should be removed and replaced with the \texttt{C<f>} from position 4 of the second sequence. And so on.

\texttt{C<diff>} may be passed an optional third parameter; this is a CODE reference to a key generation function. See \L{}/\textrm{KEY GENERATION FUNCTIONS}.

Additional parameters, if any, will be passed to the key generation routine.

\begin{verbatim}
=head2 \texttt{C<diff>}

    \@sdiffs     = sdiff( \@seq1, \@seq2 );
    $sdiffs_ref = sdiff( \@seq1, \@seq2 );

\end{verbatim}

\texttt{C<diff>} computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility \texttt{I<diff>} does:
It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
  a  b   c  e  h  j  l  m  n  p
  b  c  d  e  f  j  k  l  m  n  r  s  t
```

results in

```
( [--, 'a', '' ],
 [ '+', 'b', 'b' ],
 [ '+', 'c', 'c' ],
 [ '+', 'd', '' ],
 [ '+', 'e', 'e' ],
 [ 'c', 'f', 'f' ],
 [ 'c', 'g', 'g' ],
 [ 'c', 'h', 'h' ],
 [ 'c', 'i', 'i' ],
 [ 'c', 'j', 'j' ],
 [ 'c', 'k', 'k' ],
 [ 'c', 'l', 'l' ],
 [ 'c', 'm', 'm' ],
 [ 'c', 'n', 'n' ],
 [ 'c', 'p', 'p' ],
 [ 'c', 'q', 'q' ],
 )
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more
compact description consisting of just one flat list of indices. An example helps explain the format:

```perl
my @a = qw( a b c  e j  l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
#  @a      @b       @a       @b
# start   start   values   values
# (    0,      0,   #       =
#  0,      0,   #    a  !
#  1,      0,   #  b c  =  b c
#  3,      2,   #       !  d
#  3,      3,   #    e  =  e
#  4,      4,   #    f  !  h
#  5,      5,   #    j  =  j
#  6,      6,   #    k  !  k
#  6,      7,   #  l m  =  l m
#  8,      9,   #  n p  !  r s t
# 10,     12,   #
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]>$ through C<$diff[2] - 1>$ of the first sequence and contains items C<$diff[1]>$ through C<$diff[3] - 1>$ of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```perl
# 1st pair     2nd pair
# of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start   Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```perl
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
```

# or
```
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
```

# or
```
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
```

# or
```
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
```

# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[i]>> and C<$B[j]>> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[i]>> and arrow B is pointing to C<$B[j]>>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```perl
traverse_sequences(
    \@seq1, \@seq2,
```
Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, \c<traverse_sequences> will call the \c<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call \c<DISCARD_B> instead. Similarly if arrow B finishes first. \c<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

\c<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

\c<traverse_sequences>(
  \@seq1, \@seq2,
  \{  MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
   \},
  undef,   # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);

\c<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.
C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C.MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
      CHANGE => $callback_4,
  }
);  
```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "". 
Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

```r
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```r

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```r
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```r

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```perl
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at

Open Source Used In collectorless_solarwinds 2.0.0 495
ftp://st.cs.uiuc.edu/pub/Smalltalk/Manchester/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

1.48 binutils 2.34-6ubuntu1.1
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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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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creates an executable that is a derivative of the Library (because it
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative († Alternative)*

Alternative: (Unit | NegatedUnit)+
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* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixtures/fix_execfile.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixtures/fix_long.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/pygram.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pygram.py

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/pgen.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/pgen.py
No license file was found, but licenses were detected in source scan.

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

Found in path(s):
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-
  extensions-3.9.5/3.9/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-
  extensions-3.9.5/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-
  extensions-3.9.5/3.10/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-
  extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732845_1628745329.55/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-
  extensions-3.9.5/3.6/Lib/distutils/command/bdist_rpm.py

1.58 public-suffix 20200303.0012-1

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1.59 logsave 1.45.5-2ubuntu1

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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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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)

all:: image

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

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

image:$ (BSDLIB)

$(BSDLIB): $(OBJS)
(cd pic; Id -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)
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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:

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version
 -
- Copyright (C) Andrew Tridgell              2005
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Theodore Ts'o
23-June-2007

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

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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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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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DES core in libhcrypto
D3DES (V5.09) -

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1.67 python3.8-dev 3.8.10-0ubuntu1~20.04

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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, 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.

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The End

1.75 pycparser 2.20

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pycparser -- A C parser in Python

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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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1.81 collectorless-solarwinds 2.0.0
1.81.1 Available under license:
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"""Setup File"""

```python
from setuptools import find_packages, setup

setup(
    name="collectorless_solarwinds",
    version="1.0.1",
    description="NMS Query System for uploading data from Solarwinds to Cisco NP.",
    author="Cisco Systems",
    author_email="vijpilla@cisco.com",
    license="Proprietary",
    install_requires=[
        "aiohttp==3.7.1",
        "collectorless-client==2.5.0",
        "pysftp==0.2.9",
        "rpm==0.0.2",
    ],
    packages=find_packages(),
    python_requires=">=3.8",
    entry_points={
        "console_scripts": ["collectorless=collectorless_solarwinds.__main__:main"]
    },
    include_package_data=True,
)
```

Found in path(s):
* /opt/cola/permits/1204809221_1632138492.67/0/collectorless-solarwinds-master3ede5caf174-18c687b6-3200-444a80c3de86da88a94/setup.py

1.82 webencodings 0.5.1
1.82.1 Available under license:
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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search(r"VERSION = '([^']+)'", io.open(
    os.path.join(os.path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    os.path.join(os.path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
    ]
)
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~
Regenerate the webencodings.labels module.

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***

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [
        """Map encoding labels to their name."
    ]
# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    ]

    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}

    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org>`_.

* Latest documentation: http://packages.python.org/webencodings/
In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.
In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `"US-ASCII`` and `"iso-8859-1`` on the web are actually aliases for `"windows-1252``. and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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* Publishing others' private information, such as a physical or electronic address, without explicit permission
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```
.. currentmodule:: flask

Blog Blueprint

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

You’ll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you
```
save your changes, try going to the URL in your browser and testing them out.

The Blueprint
-------------

Define the blueprint and register it in the application factory.

```python
from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
from werkzeug.exceptions import abort
from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using :meth:`app.register_blueprint()` <Flask.register_blueprint>. Place the new code at the end of the factory function before returning the app.

```python
def create_app:
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a `url_prefix`. So the `index` view will be at `''`, the `create` view at `''create``, and so on. The blog is the main feature of Flaskr, so it makes sense that the blog index will be the main index.

However, the endpoint for the `''index`` view defined below will be `''blog/index``. Some of the authentication views referred to a plain `''index`` endpoint. :meth:`add_url_rule` <Flask.add_url_rule> associates the endpoint name `''index`` with the `''` url so that
``url_for('index')`` or ``url_for('blog.index')`` will both work, generating the same ``/`` URL either way.

In another application you might give the blog blueprint a ``url_prefix`` and define a separate ``index`` view in the application factory, similar to the ``hello`` view. Then the ``index`` and ``blog.index`` endpoints and URLs would be different.

Index
-----

The index will show all of the posts, most recent first. A `JOIN` is used so that the author information from the `user` table is available in the result.

```python
@bp.route('/')
def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
        ' ORDER BY created DESC'
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```html
{% extends 'base.html' %}
{% block header %}
    <h1>{% block title %}Posts{% endblock %}</h1>
{% endif %}
{% endblock %}

{% block content %}
    {% for post in posts %}
        <article class="post">
            <header>
                <div>
                    <h1>{{ post['title'] }}</h1>
                    <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
                </div>
            </header>
            <div>
                <p>{{ post['body'] | safe }}</p>
            </div>
        </article>
    {% endfor %}
{% endblock %}
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside `Jinja for loops`. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create
-----

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python
   :caption: `flaskr/blog.py`

   @bp.route('/create', methods=('GET', 'POST'))
   @login_required
def create():
    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'
if error is not None:
    flash(error)
else:
    db = get_db()
    db.execute(
        'INSERT INTO post (title, body, author_id)
         VALUES (?, ?, ?)',
        (title, body, g.user['id'])
    )
    db.commit()
    return redirect(url_for('blog.index'))

return render_template('blog/create.html')

.. code-block:: html+jinja

:caption: ``flaskr/templates/blog/create.html``

{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
    <label for="title">Title</label>
    <input name="title" id="title" value="{{ request.form['title'] }}" required>
    <label for="body">Body</label>
    <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
    <input type="submit" value="Save">
</form>
{% endblock %}

Update
-----

Both the `update` and `delete` views will need to fetch a `post` by `id` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the `post` and call it from each view.

.. code-block:: python

:caption: ``flaskr/blog.py``

def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username'
if post is None:
    abort(404, f"Post id {id} doesn't exist.")

if check_author and post['author_id'] != g.user['id']:
    abort(403)

return post

```
:func:`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. `404` means "Not Found", and `403` means "Forbidden". (`401` means "Unauthorized", but you redirect to the login page instead of returning that status.)

The `check_author` argument is defined so that the function can be used to get a `post` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

```python
@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'UPDATE post SET title = ?, body = ?
                 WHERE id = ?
            ',
            (title, body, id)
Unlike the views you've written so far, the `update` function takes an argument, `id`. That corresponds to the `<int:id>" in the route. A real URL will look like `/1/update`. Flask will capture the `1", ensure it's an :class:`int`, and pass it as the `id" argument. If you don't specify `int:" and instead do `"<id>"`, it will be a string. To generate a URL to the update page, :func:`url_for` needs to be passed the `id" so it knows what to fill in: `"url_for(blog.update, id=post['id'])"`. This is also in the `index.html` file above.

The `create" and `update" views look very similar. The main difference is that the `update" view uses a `post` object and an `UPDATE` query instead of an `INSERT`. With some clever refactoring, you could use one view and template for both actions, but for the tutorial it's clearer to keep them separate.

.. code-block:: html+jinja

    {% extends 'base.html' %}

    {% block header %}
    <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
    {% endblock %}

    {% block content %}
    <form method="post">
    <label for="title">Title</label>
    <input name="title" id="title"
    value="{{ request.form['title'] or post['title'] }}" required>
    <label for="body">Body</label>
    <textarea name="body" id="body">
    {{ request.form['body'] or post['body'] }}
    </textarea>
    <input type="submit" value="Save">
    </form>
    <hr>
    <form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
    <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
    </form>
    {% endblock %}

This template has two forms. The first posts the edited data to the current page (`"/<id>/update"`). The other form contains only a button
and specifies an `action` attribute that posts to the delete view instead. The button uses some JavaScript to show a confirmation dialog before submitting.

The pattern `"{ request.form['title'] or post['title'] }"` is used to choose what data appears in the form. When the form hasn't been submitted, the original `"post"` data appears, but if invalid form data was posted you want to display that so the user can fix the error, so `"request.form"` is used instead. :data:`request` is another variable that's automatically available in templates.

Delete
-----

The delete view doesn't have its own template, the delete button is part of "update.html" and posts to the `"/<id>/delete"` URL. Since there is no template, it will only handle the `"POST"` method and then redirect to the `"index"` view.

.. code-block:: python
    :caption: `flaskr/blog.py`

    @bp.route('/<int:id>/delete', methods=('POST',))
    @login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to :doc:`install`.

Found in path(s):
* /opt/cola/permits/1168197544_1621956566.63/0/pallets-flask-2-0-1-0-gbc90801-tar-gz/pallets-flask-d81b7bf/docs/tutorial/blog.rst
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Flask Extension Development
============================

Flask, being a microframework, often requires some repetitve steps to get a third party library working. Many such extensions are already available
If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension
-----------------------

Extensions are all located in a package called `flask_something` where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package `flask_simplexml`.

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unit tests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"
-------------

So let's get started with creating such a Flask extension. The extension we want to create here will provide very basic support for SQLite3.

First we create the following folder structure:

```
flask-sqlite3/
```
Here's the contents of the most important files:

setup.py
````````

The next file that is absolutely required is the :file:`setup.py` file which is used to install your Flask extension. The following contents are something you can work with:

```python
Flask-SQLite3
-------------

This is the description for that library
````````

from setuptools import setup

setup(
    name='Flask-SQLite3',
    version='1.0',
    url='http://example.com/flask-sqlite3/',
    license='BSD',
    author='Your Name',
    author_email='your-email@example.com',
    description='Very short description',
    long_description=\_\_doc\_,
    py_modules=[flask_sqlite3],
    # if you would be using a package instead use packages instead
    # of py_modules:
    # packages=[flask_sqlite3],
    zip_safe=False,
    include_package_data=True,
    platforms='any',
    install_requires=[
        'Flask'
    ],
    classifiers=[
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Topic :: Internet :: WWW/HTTP :: Dynamic Content',
    ]
)
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

flask_sqlite3.py
`````````````````````````````````````````````````````

Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

Initializing Extensions
`````````````````````````

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

initialization functions:

If your extension is called `helloworld` you might have a function called `~init_helloworld(app[, extra_args])` that initializes the extension for that application. It could attach before / after handlers etc.

classes:

Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an object that handles opening and closing database connections.

When designing your classes, it’s important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable between different applications.

The Extension Code
Here's the contents of the `flask_sqlite3.py` for copy/paste:

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

@property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
        return ctx.sqlite3_db
```

So here's what these lines of code do:

1. The `__init__` method takes an optional app object and, if supplied, will call `init_app`.
2. The `init_app` method exists so that the `SQLite3` object can be instantiated without requiring an app object. This method supports the factory pattern for creating applications. The `init_app` will set the configuration for the database, defaulting to an in memory database if no configuration is supplied. In addition, the `init_app` method attaches the `teardown` handler.
3. Next, we define a `connect` method that opens a database connection.
4. Finally, we add a `connection` property that on first access opens the database connection and stores it on the context. This is also
the recommended way to handling resources: fetch resources lazily the first time they are used.

Note here that we're attaching our database connection to the top application context via `app.ctx_stack.top`. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this:

```python
from flask import Flask
from flask_sqlite3 import SQLite3

app = Flask(__name__)
app.config.from_pyfile('the-config.cfg')
db = SQLite3(app)
```

You can then use the database from views like this:

```python
@app.route('/')
def show_all():
    cur = db.connection.cursor()
    cur.execute(...)
```

Likewise if you are outside of a request you can use the database by pushing an app context:

```python
with app.app_context():
    cur = db.connection.cursor()
    cur.execute(...)
```

At the end of the `with` block the teardown handles will be executed automatically.

Additionally, the `init_app` method is used to support the factory pattern for creating apps:

```python
db = SQLite3()
# Then later on.
app = create_app('the-config.cfg')
db.init_app(app)
```

Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).

.. admonition:: Note on `init_app`
As you noticed, `init_app` does not assign `app` to `self`. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`~flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using `_app_ctx_stack`
-----------------------

In the example above, before every request, a `sqlite3_db` variable is assigned to `['_app_ctx_stack.top']`. In a view function, this variable is accessible using the `connection` property of `SQLite3`. During the teardown of a request, the `sqlite3_db` connection is closed. By using this pattern, the *same* connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others
-----------------

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions on the `PyPI`. If you feel lost there is still the `mailinglist` and the `Discord server` to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the API. And this can only work if collaboration happens early.

Approved Extensions
-------------------

Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to
all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*.
   It must provide exactly one package or module named `flask_extension_name`.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension's API must have the following characteristics:
   - It must support multiple applications running in the same Python process. Use `current_app` instead of `self.app`, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the `ext.init_app()` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with `pip install -e .`.

5. It must ship a testing suite that can be invoked with `tox -e py` or `pytest`. If not using `tox`, the test dependencies should be specified in a `requirements.txt` file. The tests must be part of the sdist distribution.

6. The documentation must use the `flask` theme from the `Official Pallets Themes`. A link to the documentation or project website must be in the PyPI metadata or the readme.

7. For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.6+ is recommended as of 2020. Use `python_requires=">= 3.6"` in `setup.py` to indicate supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
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1.88 zlib 1.2.11.dfsg-2ubuntu1.2

1.88.1 Available under license :

Found license 'General Public License 2.0' in 'No. PKWare has apparently decided to keep that format proprietary, since 42. The match.asm code in contrib is under the GNU General Public License. GNU GPL?'

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

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jloup@gzip.org          madler@alumni.caltech.edu

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

/*

1.89 lockfile 0.12.2

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1.90 libc 2.31-0ubuntu9.2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.93 libsepol 3.0 1

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:


It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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History
------

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The following is additional information from Juan C. Gomez on how this license is to be interpreted:

-----
Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan

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The following is additional information from Mark Adamson on how this license is to be interpreted:

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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-Mark
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---
After discussing this license with the OpenLDAP Foundation we received
clarification on it:

---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
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Regards, Kurt

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1.100 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

1.100.1 Available under license :

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1.102 libunistring 0.9.10 2

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 * command :
 * $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * The tag is then compared to zstd version number.
 * They are compatible if first 3 digits are identical.
 * Anything beyond that is free, and doesn't impact validation.
 * Example : tag v1.8.1.2 is compatible with version 1.8.1
 * When tag and version are not compatible, program exits with error code 1.
 * When they are compatible, it exists with a code 0.
 * checkTag is intended to be used in automated testing environment.
*/

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

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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lib/hcrypto/test_dh.c

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* https://github.com/andy-maier
1.109 build-essential 12.8ubuntu1.1

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py

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Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py

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extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'"
'License: ' + self.distribution.get_license(),

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
   | NAME [Details] [Repeater]
   | '(' Alternatives ')' [Repeater]
   | '[' Alternatives ']
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
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/**
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 */

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
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# version.

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py
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Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py

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executable.

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
No license file was found, but licenses were detected in source scan.

file.write('License: %s
\n\nself.get_license()')

# All rights reserved.

1.111 asynctest 0.13.0

1.111.1 Available under license:

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1.112 libseccomp 2.5.1-1ubuntu1~20.04.1

1.112.1 Available under license:

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Version 2.1, February 1999

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1.113 flask-restful 0.3.9

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1.114 python-defaults 3.8.2-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Breitrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

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

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

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from compatible? (1)

- 0.9.0 thru 1.2 1991-1995 CWI yes
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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
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- 2.2 2.1.1 2001 PSF yes
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- 2.1.3 2.1.2 2002 PSF yes
- 2.2.1 2.2 2002 PSF yes
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- 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
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- 2.6.2 2.6.1 2009 PSF yes
- 2.6.3 2.6.2 2009 PSF yes
- 2.6.4 2.6.3 2009 PSF yes
- 3.0 2.6 2008 PSF yes
- 3.0.1 3.0 2009 PSF yes
- 3.1 3.0.1 2009 PSF yes
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1.115 e2fsprogs 1.45.5 2ubuntu1
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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)
#
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) $(OBJS))
$(MV) pic/$ (BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd .; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB)`)
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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===================================================================
--- 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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Theodore Ts'o
23-June-2007
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It is part of the main e2fsprogs distribution, which can be found at:

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1.118 libxext 1.3.4-0ubuntu1

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1.119 jsonschema 3.2.0
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1.120 six 1.14.0

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1.121 keyutils 1.6-6ubuntu1

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1.122 pep517 0.8.2
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1.123 libxmu 1.1.3-0ubuntu1
1.123.1 Available under license


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1.124 jinja2 3.0.1
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Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.1
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja
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- Documentation: https://jinja.palletsprojects.com/
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- Source Code: https://github.com/pallets/jinja/
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- Chat: https://discord.gg/pallets

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
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[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://jinja.palletsprojects.com/
    Changes = https://jinja.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/jinja/
    Issue Tracker = https://github.com/pallets/jinja/issues/
Twitter = https://twitter.com/PalletsTeam
Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
    package_dir = = src
    include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = True
source =
jinja2
tests

[coverage:paths]
source =
    src
/*site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1166437412_1621420347.71/0/jinja2-3-0-1-tar-gz/Jinja2-3.0.1/setup.cfg

1.125 netbase 6.1
1.125.1 Available under license:
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1.126 gpgconf 2.2.19-3ubuntu2.1
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## zlib
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## libssh2

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1.128 man-pages 5.05-1

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```sh
#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^[^BIR]/ that aren't
```
This script is designed to help with "by hand" tidy-ups after
the automated changes made by add_parens_for_own_funcs.sh.

The first argument to this script names a manual page directory where
'man2' and 'man3' subdirectories can be found. The pages names in
these directories are used to generate a series of regular expressions
that can be used to search the manual page files that are named in
the remaining command-line arguments.

Example usage:

cd man-pages-x.yy
sh find_dots_no_parens.sh man?/*.? > matches.log

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Windows support

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P.O. Box 94079, 1090 GB Amsterdam, Netherlands
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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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.)

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

4. You may copy and distribute the Library (or a portion or
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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.

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

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

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A "covered work" means either the unmodified Program or a work based on the Program.

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extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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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.

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.

d) 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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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Other contributors include:
Anthony Towns <ajt@debian.org>
David Whedon <dwhedon@gordian.com>
Dan Jacobowitz <dan@debian.org>
Tollef Fog Heen <tfheen@debian.org>
Attilio Fiandrotti <fiandro@tiscali.it>
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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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.

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<th>Owner</th>
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P.O. Box 94079, 1090 GB Amsterdam, Netherlands
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This package was put together by Vaidhyanathan G Mayilrangam
<vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz. Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>, Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.157 pcre 10.34-7

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PCRE2 LICENCE

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PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

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

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1.158 python3-lib2to3 3.8.10-0ubuntu1~20.04

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8.10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pytree.py
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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/fixed/fix_apply.py
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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/tests/test_pytree.py

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/dist.py

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Modules/_tkinter.c
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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Modules/_tkinter.c

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pgen2/tokenize.py
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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/tokenize.py

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
  | NAME [Details] [Repeater]
  | '(' Alternatives ')' [Repeater]
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '* | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/PatternGrammar.txt
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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/PatternGrammar.txt

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/fixes/fix_dict.py
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executable.

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* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/pgen.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.5/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.3/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.4/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.2/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.1/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3-8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.0/Lib/lib2to3/pgen2/grammar.py
No license file was found, but licenses were detected in source scan.

('binary-only', None, "cannot supply both '--source-only' and '--binary-only'")

'License: ' + self.distribution.get_license(),

Found in path(s):
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1189732833_1628745621.31/0/python3-stdlib-extensions-3.8-10-orig-1-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/command/bdist_rpm.py
1.159 mawk 1.3.4.20200120 2

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Current maintainer: Thomas Dickey <dickey@invisible-island.net>

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

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

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT
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1.162 zipp 3.5.0

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__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',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
        ]
    }
```

---
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.290/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.164 werkzeug 2.0.1
1.164.1 Available under license :

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1.165 libkeyutils 1.6-6ubuntu1

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1.166 python3.8-minimal 3.8.10-
0ubuntu1~20.04
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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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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 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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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.
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* DNS resolver (dirmngr/dns.c)

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1.173 libffi 3.3 4

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1.176 libpsl 0.21.0-1ubuntu1

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File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install
DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n"
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.
Using this module file locking via \(<\text{fcntl(2)}>\) can be done (obviously, this restricts the use of the module to systems that have a \(<\text{fcntl(2)}>\) system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to \(<\text{fcntl(2)}>\) for locking requests, must be created and its properties set. Afterwards, by calling the \(<\text{lock()}>\) method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the \(<\text{fcntl(2)}>\) system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl \(<\text{fcntl}>\) function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with \(<\text{use}>\)). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=item C<new()> 

To create a new object, representing a flock structure, call \(<\text{new()}>\):

$$fs = \text{new File::FcntlLock};$$

The object has a number of properties, reflecting the members of the flock structure to be passed to \(<\text{fcntl(2)}>\) (see below). Per default on object creation the \(<\text{l_type}>\) property is set to \(<\text{F_RDLCK}>\), \(<\text{l_whence}>\) to \(<\text{SEEK_SET}>\), and both \(<\text{l_start}>\) and \(<\text{l_len}>\) to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the \(<\text{new()}>\) method a set of key-value pairs to initialize the objects properties, e.g. use

$$fs = \text{new File::FcntlLock( l_type => F_WRLCK, l_whence => SEEK_SET, l_start => 0, l_len => 100 );}$$
if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at C<l_start>, to the end of the file. E.g., a lock obtained with L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative
values for \texttt{\_l\_len} and will return an error when you try to obtain such a lock, so please read the \texttt{fcntl(2)} man page of the system carefully for details.

\textbf{=item \texttt{\_l\_pid()}}

If a call of the \texttt{\_lock()} method with \texttt{F\_GETLK} indicates that another process is holding the lock (in which case the \texttt{\_l\_type} property will be either \texttt{F\_WRLCK} or \texttt{F\_RDLCK}) a call of the \texttt{\_l\_pid()} method returns the PID of the process holding the lock. This method does not accept any arguments.

\textbf{=back}

\textbf{=head2 Locking}

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the \texttt{\_lock()} method:

\textbf{=over 4}

\textbf{=item \texttt{\_lock()}}

This method expects two arguments. The first one is a file handle (or typeglob). \texttt{File::FcntlLock}, and thus \texttt{File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline)}, also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\begin{verbatim}
$fs->lock( $fh, F_SETLK );
\end{verbatim}

There are three values that can be used as the second argument:

\textbf{=over 4}

\textbf{=item \texttt{F\_SETLK}}

With \texttt{F\_SETLK} the \texttt{\_lock()} method tries to obtain a lock (when \texttt{\_l\_type} is set to either \texttt{F\_WRLCK} or \texttt{F\_RDLCK}) or releases it (if \texttt{\_l\_type} is set to \texttt{F\_UNLCK}). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns \texttt{undef} and \texttt{errno} is set to \texttt{EACCESS} or \texttt{EAGAIN} (please see the the man page for \texttt{fcntl(2)} for more details).

\textbf{=item \texttt{F\_SETLKW}}
is similar to C<\_F_SETLK>, but instead of returning an error if the
lock can't be obtained immediately it puts the calling process to
sleep, i.e., it blocks, until the lock is obtained at some later
time. If a signal is received while waiting for the lock the
method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<\_F_GETLK>

With C<\_F_GETLK> the L<lock()> method determines if and which process
currently is holding the lock. If there's no other lock the L<l_type>
property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There
may be several processes that keep us from getting a lock, including
some that themselves are blocked waiting to obtain a lock. C<\_F_GETLK>
will only make details of one of these processes visible, and one has
no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true",
i.e., a value that is true in boolean but 0 in numeric context. If
the method fails (as indicated by an C<undef> return value) you can
either immediately evaluate the error number (using $!, $ERRNO or
SOS_ERROR) or check for it via the methods discussed below at some
later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other,
due to the first calling the system function L<fcntl(2)> directly
while the latter two invoke the Perl C<fcntl> function. Perl's
C<fcntl> function already returns a Perl error on some types of
invalid arguments. In contrast File::FcntlLock passes them on to the
L<fcntl(2)> system call and then returns the systems response to the
caller.

There are three methods for obtaining information about the
reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error `C<undef>` is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of `L<lock()>`. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns `C<undef>`.

=item C<system_error()>

While the `L<error()>` method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with `C<errno>`. The method returns `C<undef>` if there was no error.

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a `L<fcntl(2)>` system call. Note also that under certain circumstances the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its `C<pack>` and `C<unpack>` functions.

=head1 CREDITS
Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with \texttt{fcntl(2)}. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring \<jt@toerring.de\>

=head1 SEE ALSO

\texttt{perl(1)}, \texttt{fcntl(2)}, \texttt{lseek(2)}.

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* /opt/ws_local/PERMITS_SQL/1078668518_1597401461.2/0/libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/FcntlLock.xs
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1.179 linux-libc-dev 5.4.0-88.99

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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DRuntime: Runtime Library for the D Programming Language

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Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

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1.188 typing-extensions 3.10.0.2

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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`./bootloader/
./PyInstaller/loader`

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Run-time Hooks are in the directory
`./PyInstaller/hooks/rthooks`

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The PyInstaller Development Team is the set of contributors
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The core team that coordinates development on GitHub can be found here: https://github.com/pyinstaller/pyinstaller. As of 2021, it consists of:

* Hartmut Goebel
* Jasper Harrison
* Bryan Jones
* Brenainn Woodsend
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<signature of Ty Coon>, 1 April 1989
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* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
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* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg

1.203 python 3.8.10

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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.

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### 1.208 patch 2.7.6-6

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Version 3, 29 June 2007

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.214 libpython3-dev 3.8.2-0ubuntu2

1.214.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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1.219 acl 2.2.53-6

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1.220 python-setuptools 45.2.0

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1.221 libalgorithm-merge-perl 0.08-3

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# # For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge#
#print Data::Dumper -&gt; Dump([}
Algorithm::Merge - Three-way merge and diff

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

$merged = merge(\@ancestor, \@a, \@b, {

CONFLICT => sub { }
    }, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);

@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
    });

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
    }, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
    });

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
    }, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the
left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
merge: a b d e g i j k

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list.
This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

\[
\text{q}\{<!\-- \text{------ START CONFLICT ------ \-->},} \\
\text{(@left),} \\
\text{q}\{<!\-- \text{----------------\-->},} \\
\text{(@right),} \\
\text{q}\{<!\-- \text{------ END CONFLICT ------ \-->}.}
\]

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff[Algorithm::Diff]’s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of
the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm
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NAME

Algorithm::Merge - Three-way merge and diff

SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

    @merged = merge(@ancestor, @a, @b, {
        CONFLICT => sub { }
    });

    @merged = merge(@ancestor, @a, @b, {
        CONFLICT => sub { }
    }, $key_generation_function);

    $merged = merge(@ancestor, @a, @b, {
        CONFLICT => sub { }
    });

    $merged = merge(@ancestor, @a, @b, {
        CONFLICT => sub { }
    }, $key_generation_function);

    @diff = diff3(@ancestor, @a, @b);
@diff  = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff  = diff3(\@ancestor, \@a, \@b);

$diff  = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav  = traverse_sequences3(\@ancestor, \@a, \@b, {  
  # callbacks
  });

@trav  = traverse_sequences3(\@ancestor, \@a, \@b, {  
  # callbacks
  }, $key_generation_function);

$trav  = traverse_sequences3(\@ancestor, \@a, \@b, {  
  # callbacks
  });

$trav  = traverse_sequences3(\@ancestor, \@a, \@b, {  
  # callbacks
  }, $key_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the `original' list. The second list is
the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

    original: a b c e f h i k
    left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'T', 'c', 'c', 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
1 - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- -------------------------- -->},
(@right),
q{<!-- ------ END CONFLICT ------ -->},
traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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1.224 visual-studio-runtime 2017

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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Distutils2 Contributors

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
- Godefroid Chapelle
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- Filip Gruszczyski
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1.225 distlib 0.3.0

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org
for the Open Source Definition). Historically, most, but not all, Python
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the various releases.

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Distutils2 Contributors
=======================

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
1.226 libpython3-stdlib 3.8.2-0ubuntu2

1.226.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

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Version 2.1, February 1999

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)
Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/hcrypto/test_dh.c

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1.232 findutils 4.7.0 1ubuntu1

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1.237 libxau 1.0.9-0ubuntu1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.242 util-linux 2.34 0.1ubuntu9.1

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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AES in libhcrypto
rijndael-alm-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
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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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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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1.271 pyparsing 2.4.6

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

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

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

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

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

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

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

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:

a) The modified work must itself be a software library.

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Preamble

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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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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.

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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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.

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

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

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

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

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

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

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b) Accompany the work with a written offer, valid for at
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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.

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# Contributor Covenant Code of Conduct

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## Our Standards

Examples of behavior that contributes to creating a positive environment include:

* Using welcoming and inclusive language
* Being respectful of differing viewpoints and experiences
* Gracefully accepting constructive criticism
* Focusing on what is best for the community
* Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

* The use of sexualized language or imagery and unwelcome sexual attention or advances
* Trolling, insulting/derogatory comments, and personal or political attacks
* Public or private harassment
* Publishing others' private information, such as a physical or electronic address, without explicit permission
* Other conduct which could reasonably be considered inappropriate in a
## Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

## Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

## Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at report@palletsprojects.com. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

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As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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1.278 pyrsistent 0.18.0

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1.279 expat 2.2.9-1build1

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1.281.1 Available under license :
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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Bretrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
2.3 version is released.
A. HISTORY OF THE SOFTWARE

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

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

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

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

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
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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)
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In May 2000, Guido and the Python core development team moved to
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.289 xz 5.2.2
1.289.1 Available under license:

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

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