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This package was debianized by Matthias Klose <doko@debian.org>
on Mon, 10 Mar 2008 05:46:40 +0000.

It was downloaded from <ftp://sourceware.org/pub/libffi/>

Upstream Authors:

Anthony Green <green@redhat.com>

GCC developers

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```

```
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1.4 libsodium 1.0.16-2

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```
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 */
```

1.5 libxmu 1.1.2-2+b3

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1.6 bzip2 1.0.6-8.1ubuntu0.2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.7 hostname 3.23

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1.8 iconv 2.31

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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The

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and valid for as

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1.10 libffi 3.0.13-19.el7

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```

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```
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```
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```

```
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1.11 keyutils 1.6.1-2

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1.12 shadow 4.8.1-1

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\$Id\$

1.14 pcre 8.39-13

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Written by: Philip Hazel
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1.15 libgpg-error 1.38-2

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

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

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

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

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

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

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For 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 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

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1.17 libsepol 3.1-1

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1.18 coreutils 8.32-4+b1

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1.21 libyamI 0.2.5

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1.24 brotli 1.0.9-2+b2

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```

```
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1.30 mawk 1.3.4.20200120-2

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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' ],

```

```
[ '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
@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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Found in path(s):

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#

```

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

print join(" ", merge(
#print Data::Dumper -> Dump([
# merge(
#   #[qw(a b c d   h i j)], # ancestor
#   #[qw(a b c d f h i j)], # left
#   #[qw(a b c e g   )], # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6   8 a b)],
    [qw(0 1 2 3 5 8 a b)],
##
    {
        CONFLICT => sub ($$) { (
            qw{<}, @{$_[0]}, q{[]}, @{$_[1]}, qw{>}
        ) },
    },
)), "\n";
#)], "\n";
#print join(" ", @{
#   [qw(0 1 @ < 3 | # > 6)]
#   }, "\n";

1;
__END__

```

```

1;

__END__

```

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 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);

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

$mmerged = 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:

```
q{<!-- ----- START CONFLICT ----- -->},
(@left),
q{<!-- ----- -->},
(@right),
q{<!-- ----- END CONFLICT ----- -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=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/1136205593_1613708306.69/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

1.35 xxhash 0.8.0-2

1.35.1 Available under license :

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1.38 debianutils 4.11.2

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1.39 libidn 2.3.0-5

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

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

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

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

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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.)

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three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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is widely used among developers working in that language.

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PLY (Python Lex-Yacc) Version 3.11

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Introduction

=====

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

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

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

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

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

```
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

Requirements

=====

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

Resources

=====

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

<http://www.dabeaz.com/ply>

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

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

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

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

Acknowledgments

=====

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

The CHANGES file acknowledges those who have contributed patches.

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

Special Note for PLY-3.0

=====

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

Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----  
# calc.py
```

```

#
# A simple calculator with variables.
# -----

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

# Tokens

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

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

# Ignored characters
t_ignore = " \t"

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

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

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

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

```

```

# dictionary of names (for storing variables)
names = { }

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

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

def p_expression_binop(p):
    '''expression : expression PLUS expression
        | expression MINUS expression
        | expression TIMES expression
        | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

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

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

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

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

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

import ply.yacc as yacc
yacc.yacc()

```

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

Bug Reports and Patches

=====

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

-- Dave

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
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```

```
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```

0f398b7/ply/yacc.py

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1.54 sqlite 3.34.1-3

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1.56 gpm 1.20.7-8

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1.57 libxext 1.3.3-1.1

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1.59 sensible-utils 0.0.14

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1.60 libxcb 1.14-3

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1.61 gdbm 1.19-2

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1.62 cracklib 2.9.6-3.4

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Upstream-Name: cracklib

Upstream-Contact: Nathan Neulinger <nneul@umr.edu>

Source: <https://github.com/cracklib/cracklib>

Files: *

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2008-2015 Jan Dittberner <jan@dittberner.info>

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1.63 e2fsprogs 1.46.2-2

1.63.1 Available under license :

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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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. 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>.

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

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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)

```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

<http://sourceforge.net/projects/e2fsprogs>

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.64 Isb 11.1.0

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Upstream-Name: LSB implementation package

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1.65 libnettle6 3.7.3-1

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

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- cipher/sha256-avx2-bmi2-amd64.S
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- random/jitterentropy.h
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1.68 libxcrypt 4.4.18-5

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1.77 patch 2.7.6-7

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1.78 mpclib 1.2.0-1

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1.79 mpfr 4.1.0-3

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#

These procedures come from the source code of GFun.

#

```
getname:=proc(yofz::function(name), y, z)
```

```
  y:=op(0,yofz);
```

```
  if type(y,'procedure') then error `not an unassigned name`,y fi;
```

```
  z:=op(yofz)
```

```
end proc:
```

#

returns the smallest i such that u(n+i) appears in a recurrence

#

```
minindex := proc(rec,u,n)
```

```
  min(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
```

```
end proc:
```

```

#
# returns the largest i such that u(n+i) appears in a recurrence
#
maxindex := proc(rec,u,n)
  max(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:

#
# A recurrence of the form  $a(n+d) = p(n)/q(n) a(n)$  is represented through a record:
# OneTermRecurrence : record(order, numerator, denominator)
#
`type/OneTermRecurrence` := 'record(order, numerator, denominator)':

#
#checkOneTermRecurrence
# Input: a recurrence rec (either with or without initial conditions).
#   If it has initial conditions, they are ignored.
#   a(n): the name of the sequence and the name of the variable.
#
# Output:
#
  This procedure checks that rec is a recurrence of the form  $a(n+d) = p(n)/q(n) a(n)$ 
# If the check succeeds, it returns the corresponding record. If it fails, an error is
# returned.
#
checkOneTermRecurrence := proc(rec, aofn)::OneTermRecurrence;
  local r, d, a, n, term1, term2, res;

  getname(aofn, a, n):
  if type(rec, 'set') then
    r:=select(has, rec, n);
    if nops(r)>1
      then error `invalid recurrence`, rec
    fi:
    if nops(r)=0
      then error "%1 does not appear in the recurrence", n
    fi:
    r := op(r):
  else r:=rec:
  fi:
  if type(r,`=')
    then r:=op(1,r)-op(2,r)
  fi:
  if indets(r,'specfunc'('anything',a)) <> indets(r,'specfunc'('linear'(n),a))
    then error "the recurrence contains elements that are not linear in %1", n
  fi:

```

```

fi:
if nops(r) <> 2
  then error "the recurrence contains %1 terms (expected 2)", nops(r)
fi:
r := subs(n=n-minindex(r, a, n), r):
d := maxindex(r, a, n):

term1 := select(has, r, a(n)):
term2 := select(has, r, a(n+d)):

res := factor( -(term1/a(n)) / (term2/a(n+d)) ):

Record( 'order'=d, 'numerator' = numer(res), 'denominator' = denom(res) )
end proc:

#
# my_factors factorizes p the same way as factors(p) would do except that the constant part is computed
# differently. We assume here that p has integer coefficients, and we want to factorize it over polynomials
# with integer coefficients. my_factors ensures that the factors have integer coefficients.
#
my_factors := proc(p)
local L, c, fact, i, my_c, my_fact, q:
L := factors(p):
c := L[1]: fact := L[2]:
my_c := c: my_fact := []:
for i from 1 to nops(fact) do
  q := denom(fact[i][1]):
  my_fact := [ op(my_fact), [ fact[i][1]*q, fact[i][2] ] ]:
  my_c := my_c / (q^fact[i][2]):
od:
[ my_c, my_fact]:
end proc:

#
# This procedure decomposes a one-term recurrence with the following form:
#  $a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)$ 
#
# Known issue: this procedure assumes that the only variables involved are
# n and x with their usual meaning.
#
decomposeOneTermRecurrence := proc(formalRec::OneTermRecurrence, res_cste, res_s1, res_s2, res_p, res_q)
local p, q, cste, s1, s2, d, L, i, tmp, exponent, r, polyring:
p := formalRec:-numerator:
q := formalRec:-denominator:
d := formalRec:-order:
s1 := 1:

```

```

L := op(2,my_factors(p)): # L contains the non trivial factors of p
for i from 1 to nops(L) do
  tmp := L[i][1]: exponent := L[i][2]:
  r := gcd(tmp^exponent, subs(n=n-d, q)):
  p := quo(p,r,n): q := quo(q, subs(n=n+d, r),n): s1 := s1 * r:
od:

s2 := 1:
L := op(2,my_factors(p)): # L contains the *remaining* non trivial factors of p
for i from 1 to nops(L) do
  tmp := L[i][1]: exponent := L[i][2]:
  r := gcd(tmp^exponent, subs(n=n+d, q)):
  p := quo(p, r, n): q := quo(q, subs(n=n-d, r), n): s2 := s2 * r:
od:

# Finally we look for the constant part (with respect to n) of p/q
cste := op(1, my_factors(p))/op(1, my_factors(q)):
p := p/op(1, my_factors(p)): q :=
q/op(1, my_factors(q)):
polyring := RegularChains[PolynomialRing]([n,x]):
L := op(2, my_factors(p)):
for i from 1 to nops(L) do
  if RegularChains[MainVariable](L[i][1], polyring) = x
  then cste := cste * L[i][1]^L[i][2]: p := quo(p,L[i][1]^L[i][2],x):
  fi:
od:
L := op(2, my_factors(q)):
for i from 1 to nops(L) do
  if RegularChains[MainVariable](L[i][1], polyring) = x
  then cste := cste / L[i][1]^L[i][2]: q := quo(q,L[i][1]^L[i][2],x):
  fi:
od:

res_cste := cste;
res_s1 := s1;
res_s2 := s2;
res_p := simplify(p);
res_q := simplify(q);
end proc:

#
#coeffrecToTermsrec
# Input: a linear recurrence rec (either with or without initial conditions).
# a(n): the name of the sequence and the name of the variable.
# x: a value or symbolic name
#
# Output:

```

```

# The recurrence satisfied by  $a(n)*x^n$ . Note that this recurrence is also denoted by  $a(n)$ .
# If initial conditions were provided, corresponding initial conditions are computed.
#
coeffrecToTermsrec
:= proc(rec, aofn, x)
local a,n,L,r,cond,d,i,tmp,c,res;
getname(aofn, a, n):
if type(rec, 'set') then
L := selectremove(has, rec, n):
r := L[1]:
if nops(r)>1
then error `invalid recurrence`, rec
fi:
if nops(r)=0
then error "%1 does not appear in the recurrence", n
fi:
r := op(r):
cond := L[2]:
else r := rec:
fi:
d := maxindex(r, a, n):
L := indets(r,specfunc('linear'(n),a)):
if indets(r,specfunc('anything',a)) <> L
then error "the recurrence contains elements that are not linear in %1", n
fi:
L := map(op, L):
for i from 1 to nops(L) do
r := subs(a(op(i,L))=a(op(i,L))*x^(d-op(i,L)+n), r):
od:
if cond<>'cond' then
c := {}:
for i from 1 to nops(cond) do
tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
if not type(tmp,`= `) then error "Invalid initial condition: %1", tmp: fi:
L := selectremove(has, {op(tmp)}, a):
if (nops(L[1]) <> 1) or (nops(L[2])<>1)
then error "Invalid initial condition: %1", tmp:
fi:
tmp := op(1, L[1]): # tmp has the form 'a(k)'
c := {op(c), tmp = op(1, L[2])*x^op(tmp)}:
od:
res := {r, op(c)}:
else res := r:
fi:
res:
end proc:

```

```

#
# This procedure removes the conditions of the form  $a(k)=0$  from the initial conditions of rec
# It returns a list  $L = [L1, L2, \dots]$  where  $L_i = [k, \text{expr}]$  representing the condition  $a(k)=\text{expr}$ .
# Moreover, it asserts that the  $L_i$  are ordered by increasing  $k$ .
#
removeTrivialConditions := proc(rec, aofn)
local a,n,i,L,tmp,c,cond,k:
getname(aofn, a, n):
if not type(rec, 'set') then
error "%1 is not a recurrence with initial conditions", rec
else
L := selectremove(has, rec, n):
cond := L[2]:
if nops(cond)=0
then error "%1 does not contain initial conditions", rec
fi:
fi:
c := []:
for i from 1 to nops(cond) do
tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
if not type(tmp, '=' ) then error
"Invalid initial condition: %1", tmp: fi:
L := selectremove(has, {op(tmp)}, a):
if (nops(L[1]) <> 1) or (nops(L[2])<>1)
then error "Invalid initial condition: %1", tmp:
fi:
if op(1, L[2])<>0 then c := [op(c), [op(op(1, L[1])), op(1, L[2])]]: fi:
od:
# We check that the conditions are ordered by increasing k.
if (nops(c)=0) then return c: fi:
k := c[1][1]:
for i from 2 to nops(c) do
if (c[i][1]<=k)
then error "Unexpected error in removeTrivialConditions: the conditions are not correctly ordered (%1)\n", c
else k := c[i][1]
fi:
od:
c:
end proc:

#
# findFixpointOfDifferences: takes a set L of integer and returns the smallest set S
# containing L and such that for each i,  $S[i]-S[i-1] \in S$ 
findFixpointOfDifferences := proc(L)
local res, i:
res := L:
for i from 2 to nops(L) do

```



```

    res := { op(res), L[i]-L[i-1] }:
od:
if (res=L) then return res else return findFixpointOfDifferences(res) fi:
end proc:

#
# error_counter functions
# allows one to follow the accumulation of errors in each variable.
# an error_counter is a list of the form [[var1, c1], [var2, c2], ... ]
# where the vari are variable names and the ci indicate how many approximation errors
# are accumulated in vari.
#
#
# This procedure initializes the counter associated with variable var to 1 (and creates it if needed.)
# It returns an up-to-date error_counter.
init_error_counter := proc (var, error_counter)
local i, res:
res := error_counter:
for i from 1 to nops(res) do
if (res[i][1]=var)
then res[i][2] := 1:
return res:
fi
od:
res := [op(res), [var, 1]]:
end:

#
# This procedure adds a given number to the counter associated with variable var.
# It returns an up-to-date error_counter.
add_to_error_counter := proc (var, n, error_counter)
local i, res:
res := error_counter:
for i from 1 to nops(res) do
if (res[i][1]=var)
then res[i][2] := res[i][2]+n:
return res:
fi
od:

res := [op(res), [var, n]]:
end proc:

#
# This procedure sets the value of the counter associated with variable var.

```

```

# It returns an up-to-date error_counter.
set_error_counter := proc(var, n, error_counter)
local i,err:
err := error_counter:
for i from 1 to nops(err) do
if (err[i][1]=var)
then err[i][2] := n:
return err:
fi
od:
err := [op(err), [var, n]]:
end proc:

#
# This procedure initializes the counter associated to the multiplication of var2 and var3,
# putting the result in variable var1.
# It returns an up-to-date error_counter.
error_counter_of_a_multiplication := proc (var1, var2, var3, error_counter)
local i, res, c2, c3:
c2 := 0: c3 := 0:
for i from 1 to nops(error_counter) do
if (error_counter[i][1]=var2) then c2 := error_counter[i][2] fi:
if (error_counter[i][1]=var3) then c3 := error_counter[i][2] fi:
if (error_counter[i][1]=var1)
then
res := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter))]]
]
fi:
od:
if (res = 'res') then res := error_counter fi:
res := [op(res), [var1, c2+c3+1]]:
end:

#
# Copies the error counter of var2 into var1
error_counter_on_copy := proc(var1, var2, error_counter)
local i, err, c2:
c2 := 0:
for i from 1 to nops(error_counter) do
if (error_counter[i][1] = var2) then c2 := error_counter[i][2] fi:
if (error_counter[i][1] = var1)
then
err := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter))]] ]
fi:
od:
if (err = 'err') then err := error_counter fi:
if (c2 <> 0) then err := [op(res), [var1, c2]] fi:
end proc:

```

```

#
# Returns the value of the error counter associated to a variable
find_in_error_counter := proc(var, error_counter)
  local i:
  for i from 1 to nops(error_counter) do
    if (error_counter[i][1] = var) then return error_counter[i][2] fi:
  od:
  return 0:
end proc:

#
# generate_multiply_rational(fd, var1, var2, r, error_counter, indent) generates code for performing
#
# var1 = var2*r in MPFR
# fd is the file descriptor in which the code shall be produced.
# var1 and var2 are strings representing variable names. r is a Maple rational number.
# error_counter is an error_counter (as described above).
# indent is an optional argument. It is a string used to correctly indent the code. It is prefixed to any
# generated line. Hence, if indent=" ", the generated code will be indented by 2 spaces.
# An up-to-date error_counter is returned.
generate_multiply_rational := proc(fd, var1, var2, r, error_counter, indent:="")
  local p,q,err:
  err := error_counter:
  if (whattype(r)<>'fraction') and (whattype(r)<>'integer')
  then error "generate_multiply_rational used with non rational number % 1", r: fi:
  if (abs(r)=1)
  then
    if (var1=var2)
    then
      if (r<>1) then fprintf(fd, "%sMPFR_CHANGE_SIGN (%s);\n", indent, var1) fi:
      return err:
    else
      if (r=1)
      then fprintf(fd, "%smpfr_set (%s, %s, MPFR_RNDN);\n", indent, var1,
var2):
      else fprintf(fd, "%smpfr_neg (%s, %s, MPFR_RNDN);\n", indent, var1, var2):
      fi:
      return error_counter_on_copy(var1, var2, err):
    fi
  fi:
  # Now, r is a rational number different from 1.
  p := numer(r): q := denom(r):
  if (abs(p)<>1)
  then
    fprintf(fd, "%smpfr_mul_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p):
    err := error_counter_of_a_multiplication(var1, var2, "", err):

```

```

if(q<>1)
then
  fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var1, q):
  err := error_counter_of_a_multiplication(var1, var1, "", err):
fi:
else
  fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p*q):
  err := error_counter_of_a_multiplication(var1, var2, "", err):
fi:
return err:
end proc:

#
# generate_multiply_poly is the same as generate_multiply_rational but when r is a rational fraction.
# The fraction r must have the form p/q where p and q are polynomials with integer coefficients.
#
# Moreover, the gcd of the coefficients of p must be 1. Idem for q.
# The procedure returned a list [m, d, err] where m is the set of indices k such that
# a mpfr_mul_sik function is needed and idem for d with mpfr_div_sik.
# err is an up-to-date error counter.
generate_multiply_poly := proc(fd, var1, var2, r, error_counter, indent="")
local p,q,Lp,Lq,n,i,j,var, required_mulsi, required_divsi, err:
err := error_counter:
required_mulsi := {}:
required_divsi := {}:
p := numer(r): q := denom(r):
Lp := my_factors(p): Lq := my_factors(q):
if (Lp[1] <> 1)
then error "generate_multiply_poly: an integer can be factored out of %1", p:
fi:
if (Lq[1] <> 1)
then error "generate_multiply_poly: an integer can be factored out of %1", q:
fi:
Lp := Lp[2]: Lq := Lq[2]:
var := var2:
if (nops(Lp) <> 0)
then
n := 0:
for i from 1 to nops(Lp) do n := n + Lp[i][2] od:
if (n=1)
then
fprintf(fd, "%smpfr_mul_si (%s, %s", indent, var1, var):
else

required_mulsi := { op(required_mulsi), n }:
fprintf(fd, "%smpfr_mul_si%d (%s, %s", indent, n, var1, var):
fi:

```

```

for i from 1 to nops(Lp) do
  for j from 1 to Lp[i][2] do
    fprintf(fd, ", %a", Lp[i][1]):
  od:
od:
fprintf(fd, ", MPFR_RNDN);\n"):
err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
var := var1:
fi:
if (nops(Lq) <> 0)
then
  n := 0:
  for i from 1 to nops(Lq) do n := n + Lq[i][2] od:
  if (n=1)
  then
    fprintf(fd, "%smpfr_div_si (%s, %s", indent, var1, var):
  else
    required_divsi := { op(required_divsi), n }:
    fprintf(fd, "%smpfr_div_si%d (%s, %s", indent, n, var1, var)
  fi:
  for i from 1 to nops(Lq) do
    for j from 1 to Lq[i][2] do
      fprintf(fd, ", %a", Lq[i][1])
    od:
  od:
  fprintf(fd, ", MPFR_RNDN);\n"):
  err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
  var := var1:
fi:
if (var1 <> var) then
  fprintf(fd, "%smpfr_set
(%s, %s, MPFR_RNDN);\n", indent, var1, var):
  err := set_error_counter(var1, find_in_error_counter(var, err) , err):
fi:
return [required_mulsi, required_divsi, err]:
end proc:

#
# This function generates the code of a procedure mpfr_mul_uin or mpfr_div_uin
#
generate_muldivsin := proc(op, n)
local i, var:
if ((op <> "mul") and (op <> "div"))
  then error "Invalid argument to generate_muldivuin (%1). Must be 'mul' or 'div'", op
fi:
if (whattype(n) <> 'integer')
  then error "Invalid argument to generate_muldivuin (%1). Must be an integer.", n

```

fi:

if (op="mul") then var := "MUL" else var := "DIV" fi:

```
printf("__MPFR_DECLSPEC void mpfr_div_si%d _MPFR_PROTO((mpfr_ptr, mpfr_srcptr,\n", n):
```

```
for i from n to 2 by -2 do
```

```
  printf("                long int, long int,\n"): 
```

```
od:
```

```
if (i=1)
```

```
then
```

```
  printf("                long int, mpfr_rnd_t);\n"): 
```

```
else
```

```
  printf("                mpfr_rnd_t);\n")
```

fi:

```
printf("\n\n\n"): 
```

```
printf("void\n"): 
```

```
printf("mpfr_%s_si%d (mpfr_ptr y, mpfr_srcptr x,\n", op, n): 
```

```
for i from n to 2 by -2 do
```

```
  printf("          long int v%d, long int v%d,\n", n-i+1, n-i+2): 
```

```
od:
```

```
if (i=1)
```

```
then
```

```
  printf("          long int v%d, mpfr_rnd_t mode)\n", n): 
```

```
else
```

```
  printf("          mpfr_rnd_t mode)\n")
```

fi:

```
printf("{\n"): 
```

```
printf(" long int acc = v1;\n"): 
```

```
printf(" mpfr_set (y, x, mode);\n"): 
```

```
for i from 2 to n do
```

```
  printf(" MPFR_ACC_OR_%s (v%d);\n", var, i): 
```

```
od:
```

```
printf(" mpfr_%s_si (y, y, acc, mode);\n", op): 
```

```
printf("}\n"): 
```

```
return:
```

```
end proc:
```

```
# convert from Gonnet's FPAccuracy data sets to mpfr format
```

```
# http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z
```

```
# 1 - cut the lines from (say) C/acos.c, remove the 3rd (eps) field,
```

```
#   replace the commata ',' by spaces, and remove the final '};'
```

```
#   (hint: cut -d" " -f1,2,4,5 /tmp/acos.c > /tmp/acos2.c)
```

```
# 2 - edit the infile and outfile lines below, and run
```

```
#   maple -q < gonnet.mpl
```

```
infile := "/tmp/acos2.c":
```

```
outfile := "acos":
```

```
##### don't edit below this line #####
```

```
foo := proc(arg_m, val_m, arg_e, val_e, fp)
  fprintf (fp, "53 53 n ", 53);
  to_hex(arg_m, arg_e, fp);
  fprintf (fp, " ");
  # warning: Gonnet stores -val_e
  to_hex(val_m, -val_e, fp);
  fprintf (fp, "\n");
end:
```

```
to_hex := proc(m, e, fp)
  if m<0 then fprintf (fp, "-") fi;
  fprintf (fp, "0x%sp%d", convert(abs(m),hex), e);
end:
```

```
copyright := proc(fp)
  fprintf (fp, "# This file was generated from the FPAccuracy package\n#
http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z:\n#
Copyright (C) Gaston H. Gonnet\n# This program is free software; you can redistribute it and/or\n# modify it under
the terms of the GNU General Public License\n# as published by the Free Software Foundation; either version 2\n#
of the License, or (at your option) any later version.\n# This program is distributed in the hope that it will be
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FITNESS FOR A PARTICULAR PURPOSE. See the\n# GNU General Public License for more details.\n# You
should have received a copy of the GNU General Public License\n# along with this program; if not, write to the Free
Software\n# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.\n")
end:
```

```
fp := fopen (outfile, WRITE):
```

```
l := readdata(infile, integer, 4):
copyright(fp):
for e in l do foo(op(e), fp) od:
```

```
fclose (fp);
```

```
quit;
```

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```
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```

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read("metaMPFR_common.mpl"):

```
FUNCTION_SERIES := 0:
FUNCTION_SERIES_RATIONAL := %+1:
CONSTANT_SERIES := %+1:
```

```
#####
##### We can now generate the code #####
#####
# This procedure generate code for a straightforward evaluation of the series
# corresponding to a recurrence.
# rec is a recurrence with inital conditions
# type can take three values, depending on which series should be evaluated:
# FUNCTION_SERIES -> produces code for evaluating sum( a(i)*x^i )
# FUNCTION_SERIES_RATIONAL -> produces code for evaluating sum( a(i)*(p/q)^i )
# CONSTANT_SERIES -> produces code for evaluating sum( a(i) )
# name is the name the should be given to the produced procedure.
# fofox is an optional parameter. It is the function being implemented.
# -> if provided, this argument will be used to (heuristically)
find the limits
# of the function at +/-oo and find its asymptotical behavior.
# *IMPORTANT NOTE*: it must be a function of the variable 'x'.
```

```

#           Moreover, neither _f nor x shall be assigned at the time of
#           calling the function
#
generateStraightforwardAlgo := proc(rec, aofn, type, name, filename, fofx := _f(x))
local a, b, n, fd, init_cond, nc, d, exponents, formalRec, c, s1, s2, p, q, hardconstant, f0, i0, ri0, i, j, var, var1, var2,
var3, guard_bits, required_mulsi, required_divsi, temp, error_counter, error_in_loop, maxofti, additional_error:

getname(aofn, a, n):

required_mulsi := {}:
required_divsi := {}:
fd := fopen(filename, WRITE):

# We check that we have a recurrence of the form  $a(n+d)=r(n)*a(n)$ 
# and we extract its canonical form:
#  $a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)$ 
#
formalRec := checkOneTermRecurrence(rec, a(n)):
decomposeOneTermRecurrence(formalRec, c,
s1, s2, p, q):
d := formalRec:-order:

# We keep only non-trivial initial conditions
init_cond := removeTrivialConditions(rec, a(n));
nc := nops(init_cond):
exponents := {1, d}:
for i from 1 to nc do
  exponents := { op(exponents), init_cond[i][1] }
od:
exponents := findFixpointOfDifferences(exponents):
exponents := exponents minus {0}:

error_counter := []:

fprintf(fd, "/* Evaluation by a straightforward algorithm */\n"):
fprintf(fd, "/* Code automatically generated by metaMPFR. */\n"):

fprintf(fd, "static int\n"):
if (type=FUNCTION_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_srcptr x, mpfr_rnd_t rnd)\n", name):
elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, int u, int v, mpfr_rnd_t rnd)\n", name):
elif (type=CONSTANT_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_rnd_t rnd)\n", name):
fi:
fprintf(fd, "\n"):

```

```

#####
#####
Declarations #####
#####

fprintf(fd, " MPFR_ZIV_DECL (loop);\n"):
fprintf(fd, " MPFR_SAVE_EXPO_DECL (expo);\n"):
fprintf(fd, " mpfr_prec_t wprec;          /* working precision *\n"):
fprintf(fd, " mpfr_prec_t prec;          /* target precision *\n"):
fprintf(fd, " mpfr_prec_t err;          /* used to estimate the evaluation error *\n"):
fprintf(fd, " mpfr_prec_t correctBits;    /* estimates the number of correct bits*\n"):
fprintf(fd, " unsigned long int k;\n"):
fprintf(fd, " unsigned long int conditionNumber; /* condition number of the series *\n"):
fprintf(fd, " unsigned assumed_exponent; /* used as a lowerbound of -EXP(f(x)) *\n"):
fprintf(fd, " int r;          /* returned ternary value *\n"):
fprintf(fd, " mpfr_t s;          /* used to store the partial sum *\n"):

if (whattype(c) = 'fraction') or (whattype(c) = 'integer')
  then hardconstant := 0
  else hardconstant := 1
fi:
if (type=FUNCTION_SERIES) then hardconstant := 1 fi:

if (hardconstant=1)
then
  if (type=CONSTANT_SERIES)
    then fprintf(fd, " mpfr_t x%d;          /* used to store %a *\n", d, c):
  elif (type=FUNCTION_SERIES_RATIONAL)
    then fprintf(fd, " mpfr_t x%d;          /* used to store %a *\n", d, c*(u/v)^d):
  elif (type=FUNCTION_SERIES)
    then fprintf(fd, " mpfr_t x%d;          /* used to store %a *\n", d, c*x^d):
  fi:
fi:

if (type=FUNCTION_SERIES)
then
  fprintf(fd, " mpfr_t tmp;\n"):
  if (nops(exponents)-1 >= 1) then fprintf(fd, " mpfr_t ") fi:
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, "x%d", exponents[i]):
    if (i<nops(exponents)-1) then fprintf(fd, ", ") else fprintf(fd, ";          /* used to store x^i *\n") fi
  od:
fi:

fprintf(fd, " mpfr_t ");
for i from 1 to nc do
  fprintf(fd, "tip%d", init_cond[i][1]):

```



```

    if (i<nc) then fprintf(fd, ", ") else fprintf(fd, "/* used to store successive values of t_i */\n") fi:
od:
fprintf(fd, " int "):
for i from 1 to nc do
  fprintf(fd, "test%d", init_cond[i][1]):
  if (i<nc) then fprintf(fd, ", ") else fprintf(fd, ";\n") fi:
od:
fprintf(fd, " int global_test;          /* used to test when the sum can be stopped */):

fprintf(fd, "\n"):
fprintf(fd, " /* Logging */\n"):
if (type=FUNCTION_SERIES)
  then fprintf(fd, " MPFR_LOG_FUNC ( (\\"x[%%#R]=%%R rnd=%%d\", x, x, rnd), (\\"res[%%#R]=%%R\", res,
res) );\n\n")
elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, " MPFR_LOG_FUNC ( (\\"x=u/v with u=%%d and v=%%d, rnd=%%d\", u, v, rnd),
(\\"res[%%#R]=%%R\", res, res) );\n\n")
else fprintf(fd, " MPFR_LOG_FUNC ( (\\"rnd=%%d\", rnd), (\\"res[%%#R]=%%R\", res, res) );\n\n")
fi:

#####
##### Special cases #####
#####

if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL) )
then
  fprintf(fd, " /* Special cases */\n"):

  if (type=FUNCTION_SERIES)
    then fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_NAN (x)))\n")
    else fprintf(fd, " if (MPFR_UNLIKELY (v==0))\n")
  fi:
  fprintf(fd, "  {\n"):
  fprintf(fd, "    MPFR_SET_NAN (res);\n"):
  fprintf(fd, "    MPFR_RET_NAN;\n"):
  fprintf(fd, "  }\n"):

  if (init_cond[1][1] > 0) then f0 := 0 else f0 := init_cond[1][2] fi:
  if (type=FUNCTION_SERIES)
    then fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_ZERO (x)))\n")
    else fprintf(fd, " if (MPFR_UNLIKELY (u==0))\n")
  fi:
  if (whattype(f0) = 'integer')
  then
    fprintf(fd, "  {\n"):
    fprintf(fd, "    return mpfr_set_si (res, %a, rnd);\n", f0):
    fprintf(fd, "  }\n")

```

```

else
  printf("You need to provide a function mpfr_%a0(mpfr_t, mpfr_rnd_t) that evaluates %a with correct
rounding\n",
name, f0):
  fprintf(fd, "  {\n"}:
  fprintf(fd, "    return mpfr_%a0 (res, rnd);\n", name):
  fprintf(fd, "  }\n")
fi:

if (type=FUNCTION_SERIES)
then
  fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_INF (x)))\n"):
  fprintf(fd, "  {\n"}:
  for i from -1 to 1 by 2 do # Trick to handle both -oo and +oo
    if (i<0)
      then fprintf(fd, "    if (MPFR_IS_NEG (x))\n"):
      else fprintf(fd, "    else\n")
    fi:
    fprintf(fd, "      {\n"}:
    if (i<0) then f0 := "m" else f0 := "p" fi:
    if (fofx <> _f(x))
    then
      f0 := limit(fofx, x=i*infinity):
      if (whattype(f0)='integer')
      then fprintf(fd, "        return mpfr_set_si (res, %a, rnd);\n", f0):
      elif (f0 = infinity) or (f0 = -infinity)
      then
        fprintf(fd, "          MPFR_SET_INF(res);\n"):
        if (f0>0)
        then fprintf(fd, "          MPFR_SET_POS(res);\n")
        else fprintf(fd,
"          MPFR_SET_NEG(res);\n")
        fi:
        fprintf(fd, "          MPFR_RET(0);\n"):
      else
        if (i<0) then f0 := "m" else f0 := "p" fi:
        fi:
        if ((f0 = "p") or (f0 = "m"))
        then
          printf("You need to provide a function mpfr_%a%sinf(mpfr_t, mpfr_rnd_t) that evaluates lim(f(x), x=", name,
f0):
          if (f0 = "m") then printf("-") fi:
          printf("inf) with correct rounding.\n"):
          fprintf(fd, "        return mpfr_%a%sinf (res, rnd);\n", name, f0)
        fi:
        fprintf(fd, "          }\n")
      od:

```

```

    fprintf(fd, "  }\n")
fi:
fi:

#####
##### Precomputations #####
#####

fprintf(fd, "\n"):
fprintf(fd, " /* Save current exponents range *\n"):
fprintf(fd, " MPFR_SAVE_EXPO_MARK (expo);\n"):

if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL)
)
then fprintf(fd, " /* FIXME: special case for large values of |x| ? *\n")
fi:

# Note : prec is the value such that we will try to compute an approximation
# with relative error smaller than 2^(1-prec).
# Several things may happen:
# 1) We do not achieve the intended error: this is because we badly estimated the exponent of the result
# 2) We achieve the error, but it is not sufficient to decide correct rounding (Ziv's bad case)
# Against 1), we can try to make our estimate of the exponent better with any heuristic.
# Against 2), we can consider more guard bits. 11 guard bits seem a good value for the beginning
# (statistically, we expect to fail in less than 0.1 % of the cases)
# wprec is the precision used during the computation, in order to ensure the final relative error 2^(1-prec)
#
fprintf(fd, " /* We begin with 11 guard bits *\n"):
fprintf(fd, " prec = MPFR_PREC (res) + 11;\n"):
fprintf(fd, " MPFR_ZIV_INIT
(loop, prec);\n"):

# TODO: the value here can be chosen completely heuristically. We could do something much better
# when fofx is known by using asympt(fofx, x, 1). A clean implementation appears to be complex though.
# We must catch errors if the development does not exist (e.g. AiryAi(-x));
# We must find a separation after which the asymptotic behavior is valid (e.g. x>1)
printf("The code contains a variable assumed_exponent arbitrarily set to 10. You can put any value heuristically
chosen. The closer it is to -log_2(|f(x)|), the better it is.\n"):
fprintf(fd, " assumed_exponent = 10; /* TIP: You can put any value heuristically chosen. The closer it is to -
log_2(|f(x)|), the better it is *\n"):

# TODO: find a way of putting a rigorous value here.
# This value *must* be rigorous: the safety of the implementation relies on it.
# Precisely, we need to have sum(|a(i)*x^i|) <= 2^conditionNumber
fprintf(fd, " conditionNumber = xxx; /* FIXME: set a value such that
sum(|a(i)*x^i|) <= 2^conditionNumber *\n"):
printf("The code contains a variable conditionNumber that you must manually set to a suitable value, in order to

```

```

ensure that  $\sum_{i=0}^{\infty} |a(i)*x^i| \leq 2^{\text{conditionNumber}}$ \n"):
fprintf(fd, " wprec = prec + ERRORANALYSISPREC + conditionNumber + assumed_exponent;\n"):

#####
##### Initialisations #####
#####

if (hardconstant=1)
then
  fprintf(fd, " mpfr_init (x%d);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, " mpfr_init (tmp);\n"):
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, " mpfr_init (x%d);\n", exponents[i])
  od:
fi:

for i from 1 to nc do
  fprintf(fd, " mpfr_init (tip%d);\n", init_cond[i][1])
od:
fprintf(fd, " mpfr_init (s);\n\n"):

#####
##### Ziv' loop: setting the precision
#####
#####

fprintf(fd, " /* ZIV' loop */\n"):
fprintf(fd, " for (;)\n"):
fprintf(fd, " {\n"):

fprintf(fd, " MPFR_LOG_MSG ((\"Working precision: %%d\n\", wprec, 0));\n\n"):
if (hardconstant=1)
then
  fprintf(fd, " mpfr_set_prec (x%d, wprec);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, " mpfr_set_prec (tmp, wprec);\n"):
  fprintf(fd, " if(mpfr_get_prec (x) > wprec)\n"):
  fprintf(fd, " mpfr_set_prec (x1, wprec);\n"):
  fprintf(fd, " else\n"):
  fprintf(fd, " mpfr_set_prec (x1, mpfr_get_prec (x));\n"):
  for i from 2 to nops(exponents)-1 do

```

```

    fprintf(fd, "    mpfr_set_prec (x%d, wprec);\n", exponents[i])
od:
fi:

for i from 1 to nc do
    fprintf(fd, "    mpfr_set_prec (tip%d, wprec);\n", init_cond[i][1])
od:
fprintf(fd, "    mpfr_set_prec (s, wprec);\n\n"):

#####
##### Ziv' loop: initial conditions #####
#####

fprintf(fd, "    mpfr_set_ui (s, 0, MPFR_RNDN);\n"):

if (type = FUNCTION_SERIES)
then
    fprintf(fd, "    mpfr_set (x1, x, MPFR_RNDN);\n"):
    error_counter := init_error_counter("x1", error_counter):
    for i from 2 to nops(exponents) do
        fprintf(fd, "    mpfr_mul (x%d, x%d, x%d, MPFR_RNDN);\n", exponents[i], exponents[i-1], exponents[i]-
exponents[i-1]):
    var1 := sprintf("x%d", exponents[i]):
        var2 := sprintf("x%d", exponents[i-1]):
        var3 := sprintf("x%d", exponents[i]-exponents[i-1]):
    error_counter := error_counter_of_a_multiplication(var1, var2, var3, error_counter):
    od:
fi:

for i from 1 to nc do
    i0 := init_cond[i][1]:
    ri0 := init_cond[i][2]: # We implement t_{i0} <- ri0
    if (whattype(ri0)='integer') or (whattype(ri0)='fraction')
    then
        if (type = FUNCTION_SERIES) and (i0 <> 0)
        then
            var
:= sprintf("    mpfr_mul_si (tip%d, x%d, ", i0, i0):
            var1 := sprintf("tip%d", i0):
            var2 := sprintf("x%d", i0):
            error_counter := error_counter_of_a_multiplication(var1, var2, "", error_counter):
        else
            var := sprintf("    mpfr_set_si (tip%d, ", i0):
            var1 := sprintf("tip%d", i0):
            error_counter := init_error_counter(var1, error_counter):
        fi:
    fprintf(fd, "%s%d, MPFR_RNDN);\n", var, numer(ri0)):

```

```

if (whattype(ri0)='fraction')
then
  fprintf(fd, "    mpfr_div_si (tip%d, tip%d, %d, MPFR_RNDN);\n", i0, i0, denom(ri0)):
  var1 := sprintf("tip%d", i0):
  error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
fi:
else
  printf("You need to provide a function mpfr_%a%d (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, i0, ri0):
  fprintf(fd, "    mpfr_%a%d (tip%d, MPFR_RNDN);\n", name, i0, i0):
  var1 := sprintf("tip%d",
i0):
  error_counter := init_error_counter(var1, error_counter):
  if (type = FUNCTION_SERIES) and (i0 <> 0)
  then
    fprintf(fd, "    mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, i0):
    var1 := sprintf("tip%d", i0):
    var2 := sprintf("x%d", i0):
    error_counter := error_counter_of_a_multiplication(var1, var1, var2, error_counter):
  fi:
fi:

if (type = FUNCTION_SERIES_RATIONAL) and (i0 <> 0)
then
  var1 := sprintf("tip%d", i0):
  if (i0 = 1)
  then fprintf(fd, "    mpfr_mul_si (tip%d, tip%d, ", i0, i0):
  else
    required_mulsi := { op(required_mulsi), i0 }:
    fprintf(fd, "    mpfr_mul_si%d (tip%d, tip%d, ", i0, i0, i0):
  fi:
  for j from 1 to i0 do
    fprintf(fd, "u, "):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
  od:
  fprintf(fd, "MPFR_RNDN);\n"):
  if (i0 = 1)
  then fprintf(fd, "    mpfr_div_si (tip%d,
tip%d, ", i0, i0):
  else
    required_divsi := { op(required_divsi), i0 }:
    fprintf(fd, "    mpfr_div_si%d (tip%d, tip%d, ", i0, i0, i0):
  fi:
  for j from 1 to i0 do
    fprintf(fd, "v, "):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
  od:
  fprintf(fd, "MPFR_RNDN);\n"):

```

```

fi:

fprintf(fd, "    mpfr_add (s, s, tip%d, MPFR_RNDN);\n\n", i0):
od:

if (whattype(c) = 'integer') or (whattype(c) = 'fraction')
then
if (type = FUNCTION_SERIES) and (c = -1)
then
fprintf(fd, "    MPFR_CHANGE_SIGN (x%d);\n", d):
elif (type = FUNCTION_SERIES) and (c <> 1)
then
fprintf(fd, "    mpfr_mul_si (x%d, x%d, %d, MPFR_RNDN);\n", d, d, numer(c)):
var1 := sprintf("x%d", d):
error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
if (whattype(c) = 'fraction')
then
fprintf(fd, "    mpfr_div_si (x%d, x%d, %d, MPFR_RNDN);\n",
d, d, denom(c)):
error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
fi:
fi:
else
printf("You need to provide a function mpfr_%a_cste (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, c):
if (type = CONSTANT_SERIES)
then
fprintf(fd, "    mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
var1 := sprintf("x%d", d):
error_counter := init_error_counter(var1, error_counter):
elif (type = FUNCTION_SERIES) then
fprintf(fd, "    mpfr_%a_cste (tmp, MPFR_RNDN);\n", name):
error_counter := init_error_counter("tmp", error_counter):
fprintf(fd, "    mpfr_mul (x%d, tmp, x%d, MPFR_RNDN);\n", d, d):
var1 := sprintf("x%d", d):
error_counter := error_counter_of_a_multiplication(var1, "tmp", var1, error_counter):
elif (type = FUNCTION_SERIES_RATIONAL) then
fprintf(fd, "    mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
var1 := sprintf("x%d",
d):
error_counter := init_error_counter(var1, error_counter):
if (d = 1)
then fprintf(fd, "    mpfr_mul_si (x%d, x%d, ", d, d):
else
required_mulsi := { op(required_mulsi), d }:
fprintf(fd, "    mpfr_mul_si%d (x%d, x%d, ", d, d, d):
fi:
for j from 1 to d do

```

```

    fprintf(fd, "u, "):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
od:
fprintf(fd, "MPFR_RNDN);\n"):
var1 := sprintf("x%d", d):
if (d = 1)
then fprintf(fd, "    mpfr_div_si (x%d, x%d, ", d, d):
else
    required_divsi := { op(required_divsi), d }:
    fprintf(fd, "    mpfr_div_si%d (x%d, x%d, ", d, d, d):
fi:
for j from 1 to d do
    fprintf(fd, "v, "):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
od:
fprintf(fd, "MPFR_RNDN);\n"):
fi:
fi:

#####
#####
Ziv' loop: evaluation of the series #####
#####

fprintf(fd, "\n"):
fprintf(fd, "    /* Evaluation of the series *^\n"):
fprintf(fd, "    k = %d;\n", d):
fprintf(fd, "    for (;\n"):
fprintf(fd, "    {\n"):
if (init_cond[1][1] <> 0) then fprintf(fd, "    k += %d;\n", init_cond[1][1]) fi:

for i from 1 to nc do
    error_in_loop := 0:
    i0 := init_cond[i][1]:
    if (hardconstant = 1)
    then
        fprintf(fd, "    mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, d):
        var1 := sprintf("x%d", d):
        error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
    else
        var := sprintf("tip%d", i0):
        temp := generate_multiply_rational(fd, var, var, c, [[var, error_in_loop]], "    "):
        error_in_loop := find_in_error_counter(var, temp):
        if (type = FUNCTION_SERIES_RATIONAL)
        then
            if (d=1)
            then
                fprintf(fd,

```



```

"      mpfr_mul_si (tip%d, tip%d, u, MPFR_RNDN);\n", i0, i0):
      fprintf(fd, "      mpfr_div_si (tip%d, tip%d, v, MPFR_RNDN);\n", i0, i0):
error_in_loop := error_in_loop + 2:
      else
      required_mulsi := { op(required_mulsi), d }:
      fprintf(fd, "      mpfr_mul_si%d (tip%d, tip%d", d, i0, i0):
      for j from 1 to d do fprintf(fd, ", u") od:
      fprintf(fd, ", MPFR_RNDN);\n"):
error_in_loop := error_in_loop + d:

      required_divsi := { op(required_divsi), d }:
      fprintf(fd, "      mpfr_div_si%d (tip%d, tip%d", d, i0, i0):
      for j from 1 to d do fprintf(fd, ", v") od:
      fprintf(fd, ", MPFR_RNDN);\n" ):
error_in_loop := error_in_loop + d:
      fi
      fi
fi:
var := sprintf("tip%d", i0):

temp := generate_multiply_poly(fd, var, var, subs(n=k-d, p/q), [[var, error_in_loop], "      "):
required_mulsi := { op(required_mulsi), op(temp[1]) }:
required_divsi := { op(required_divsi),
op(temp[2]) }:
error_in_loop := find_in_error_counter(var, temp[3]):
temp := generate_multiply_poly(fd, "tmp", var, subs(n=k, s2/s1), [[var, error_in_loop], "      "):
required_mulsi := { op(required_mulsi), op(temp[1]) }:
required_divsi := { op(required_divsi), op(temp[2]) }:

fprintf(fd, "      mpfr_add (s, s, tmp, MPFR_RNDN);\n"):

if (i<nc) then fprintf(fd, "\n      k += %d;\n", init_cond[i+1][1]-i0)
else fprintf(fd, "\n      k += %d;\n", d-i0)
fi:
od:

#####
##### Error analysis #####
#####

maxofti := 0: # store the maximum of the error counters of the initial conditions
for i from 1 to nc do
      var := sprintf("tip%d", init_cond[i][1]):
      if find_in_error_counter(var, error_counter) > maxofti
      then maxofti := find_in_error_counter(var, error_counter):
      fi:
od:

```

```

additional_error
:= find_in_error_counter("tmp", temp[3]) - error_in_loop:

#####
#### Ziv' loop: stopping criterion for the series ####
#####

# The first neglected term is tk, so the remainder is made by
# tk + t(k+d) + t(k+2d)... and the corresponding series
# beginning with t(k+1), t(k+2), etc. up to t(k+d-1).
#
# We have  $t(k_0+d) = c \cdot s_1(k_0)/s_1(k_0+d) \cdot s_2(k_0+d)/s_2(k_0) \cdot p(k_0)/q(k_0) \cdot x^d t(k_0)$ 
# (where  $x=u/v$  or  $x=1$  in cases of rational series or constant series)
# So it suffices that:
# forall  $k_0 \geq k-d$ ,  $|c \cdot s_1(k_0)/s_1(k_0+d) \cdot s_2(k_0+d)/s_2(k_0) \cdot p(k_0)/q(k_0) \cdot x^d| \leq 1/2$  (1)
#
# If this is true,  $|tk| = |c \cdot s_1(k-d)/s_1(k) \cdot s_2(k)/s_2(k-d) \cdot p(k-d)/q(k-d) \cdot x^d t(k-d)| \leq t(k-d)/2$ 
# This is also true for larger values of k, so we can bound  $|tk + t(k+d) + t(k+2d) + \dots|$  by  $|t(k-d)|$ .
# And the same holds for  $|t(k+1) + \dots|$ ,  $|t(k+2) + \dots|$ , etc. up to  $|t(k+d-1) + \dots|$ .
#
# global_test depends on k and we must satisfy:
# "if (global_test) then (1) holds".
#
# the total remainder is bounded by  $2^{*nc} \cdot tk$ .

fprintf(fd, "      global_test = xxx; /* FIXME: set the value in order to ensure that, whenever global_test is true,
we have: forall  $k' \geq k$ ,  $|r(k') \cdot x^{k'}| \leq 1/2$ , where r is the fraction such that  $a(n) = r(n) \cdot a(n-d) \cdot x^n$ ):
printf("The code contains a variable global_test that you must manually set to a suitable value, in order to ensure
that when global_test is true, the following holds:\n"):
printf("      forall  $k' \geq k$ ,  $|r(k') \cdot x^{k'}| \leq 1/2$ , where r is the fraction such that  $a(n) = r(n) \cdot a(n-d) \cdot x^n$ ):
guard_bits := 1+1+ceil(log[2](nc)):
for i from 1 to nc do
  i0 := init_cond[i][1]:
  fprintf(fd, "      test%d = ( (!MPFR_IS_ZERO(s))\n", i0):
  fprintf(fd, "          && ( MPFR_IS_ZERO(tip%d)\n", i0):
  fprintf(fd, "          || (MPFR_EXP(tip%d) + (mp_exp_t)prec + %d <= MPFR_EXP(s))\n", i0, guard_bits):
  fprintf(fd, "          )\n"):
  fprintf(fd, "          )\n"):
od:
fprintf(fd, "      if (");
for i from 1 to nc do
  fprintf(fd, "test%d && ", init_cond[i][1]):
od:
fprintf(fd, "global_test)\n"):
fprintf(fd, "      break;\n"):
fprintf(fd, "  }\n\n"):

```

```

#####
##### Ziv' loop: testing final #####
#####

fprintf(fd, "    MPFR_LOG_MSG ((\"Truncation rank: %%lu\\n\", k));\\n\\n");
fprintf(fd, "    err = ERRORANALYSISK + conditionNumber - MPFR_GET_EXP (s);\\n\\n");
fprintf(fd, "    /* err is the number of bits lost due to the evaluation error */\\n");
fprintf(fd, "    /* wprec-(prec+1): number of bits lost due to the approximation error */\\n");
fprintf(fd, "    MPFR_LOG_MSG ((\"Roundoff error: %%Pu\\n\", err));\\n");
fprintf(fd, "    MPFR_LOG_MSG ((\"Approxim error: %%Pu\\n\", wprec-prec-1));\\n\\n");
    fprintf(fd, "    if (wprec < err+1)\\n");
fprintf(fd, "        correct_bits=0;\\n");
fprintf(fd, "    else\\n");
fprintf(fd, "        {\\n");
fprintf(fd, "            if (wprec < err+prec+1)\\n");
fprintf(fd, "                correct_bits = wprec - err - 1;\\n");
fprintf(fd, "            else\\n");
fprintf(fd, "                correct_bits = prec;\\n");
fprintf(fd, "            }\\n");
fprintf(fd, "    if (MPFR_LIKELY (MPFR_CAN_ROUND (s, correct_bits, MPFR_PREC (y), rnd)))\\n");
fprintf(fd, "        break;\\n\\n");

fprintf(fd, "    if (correct_bits == 0)\\n");
fprintf(fd, "        {\\n");
fprintf(fd, "            assumed_exponent *= 2;\\n");
fprintf(fd, "            MPFR_LOG_MSG ((\"Not a single bit correct (assumed_exponent=%%lu)\\n\",\\n");
fprintf(fd, "                assumed_exponent));\\n");
fprintf(fd, "            wprec = prec + ERRORANALYSISK + conditionNumber + assumed_exponent;\\n");
fprintf(fd, "        }\\n");
fprintf(fd, "    else\\n");
fprintf(fd, "        {\\n");
fprintf(fd, "            if (correct_bits < prec)\\n");
fprintf(fd, "                { /* The precision was badly chosen */\\n");
fprintf(fd, "                    MPFR_LOG_MSG ((\"Bad assumption on the exponent of %s(x)\", 0));\\n", name);
fprintf(fd, "                    MPFR_LOG_MSG ((\" (E=%%ld)\\n\", (long) MPFR_GET_EXP (s));\\n");
fprintf(fd, "                    wprec = prec + err + 1;\\n");
fprintf(fd, "                }\\n");
fprintf(fd, "            else\\n");
fprintf(fd, "                { /* We are really in a bad case of the TMD */\\n");
fprintf(fd, "                    MPFR_ZIV_NEXT (loop, prec);\\n\\n");

fprintf(fd, "                /* We update wprec */\\n");
fprintf(fd, "                /* We assume that K will not be multiplied by more than 4 */\\n");
fprintf(fd, "                wprec = prec + ERRORANALYSIS4K + conditionNumber\\n");
fprintf(fd, "                - MPFR_GET_EXP (s);\\n");
fprintf(fd, "            }\\n");

```

```

fprintf(fd, "    }\n\n");

fprintf(fd, " } /* End
of ZIV loop */\n\n");
fprintf(fd, " MPFR_ZIV_FREE (loop);\n\n");
fprintf(fd, " r = mpfr_set (res, s, rnd);\n\n");

#####
##### Clearing everything #####
#####

fprintf(fd, " mpfr_clear (s);\n");
if (hardconstant=1)
then
  fprintf(fd, " mpfr_clear (x%d);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, " mpfr_clear (tmp);\n");
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, " mpfr_clear (x%d);\n", exponents[i]):
  od:
fi:

for i from 1 to nc do
  fprintf(fd, " mpfr_clear (tip%d);\n", init_cond[i][1]):
od:

fprintf(fd, "\n"):
fprintf(fd, " MPFR_SAVE_EXPO_FREE (expo);\n"):
fprintf(fd, " return mpfr_check_range (res, r, rnd);\n"):
fprintf(fd, " }\n"):

fclose(fd):

for i from 1 to nops(required_mulsi) do
  printf("You need to provide a mpfr_mul_si%d function.\n", required_mulsi[i]):
  printf("
-> This can be achieved by a call to generate_muldivsin(\"mul\", %d):\n", required_mulsi[i]):
od:
for i from 1 to nops(required_divsi) do
  printf("You need to provide a mpfr_div_si%d function.\n", required_divsi[i]):
  printf(" -> This can be achieved by a call to generate_muldivsin(\"div\", %d):\n", required_divsi[i]):
od:

#####

```

```

##### Error analysis #####
#####

printf("\n\n"):
printf("Before the loop, we have "):
for i from 1 to nc do
  var := sprintf("tip%d", init_cond[i][1]):
  printf("%s { %d}", var, find_in_error_counter(var, error_counter)):
  if (i <> nc) then printf(", ") else printf("\n") fi:
od:
printf("Each step of the loop adds another { %d}\n", error_in_loop):
if (additional_error <> 0)
then printf("Moreover, the multiplication by %a adds another { %d} to each term before it is summed.\n", subs(n=k,
s2/s1), additional_error)
fi:
printf("Finally, we have  $s = \sum_{i=0}^{k-1} (t_i \{d + dk\})$ \n", maxofti + additional_error + 1 - error_in_loop,
error_in_loop):
printf("We bound it by  $\{(k+d) \cdot 2^d\}$ \n", ceil((maxofti + additional_error + 1 - error_in_loop)/error_in_loop),
ceil(log[2](error_in_loop))):

a := ceil((maxofti + additional_error + 1 - error_in_loop)/error_in_loop):
b := ceil(log[2](error_in_loop)):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (prec + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (prec)")
else sprintf("MPFR_INT_CEIL_LOG2 (prec - %d)", -a)
fi:
if (b > 0) then var := sprintf("%s + %d", var, b+2) fi:
var := sprintf("sed -n -i 's/ERRORANALYSISPREC/%s/g;p' %s", var, filename):
system(var):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
fi:
if (b > 0) then var := sprintf("%s
+ %d", var, b+2) fi:
var := sprintf("sed -n -i 's/ERRORANALYSISISK/%s/g;p' %s", var, filename):
system(var):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
fi:
var := sprintf("%s + %d", var, b+4):

```

```

var := sprintf("sed -n -i 's/ERRORANALYSIS4K/%s/g;p' %s", var, filename):
system(var):

end proc:
read ("metaMPFR_straightforwardAlgo.mpl"):

f := AiryAi(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

f := erf(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*(6*n+2)*(6*n+3)*(6*n+4)*(6*n+5)*(6*n+6)*a(n)/
(n+1)^3*(3*n+1)*(3*n+2)*(3*n+3)*12288000 }, a(0)=1 }:
name_of_function := alpha:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n*****
Implementation de %s *****\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:

```

```

name_of_function := test2a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*****
Implementation de %s *****/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=Pi }:
name_of_function := test3a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/(n+1)^3, a(0)=1, a(1)=2 }:
name_of_function := test4a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/(n+1)^3, a(0)=Pi, a(1)=0 }:
name_of_function := test5a:
name_of_file
:= sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=1, a(1)=Pi }:
name_of_function := test6a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=Pi, a(1)=0 }:
name_of_function := test7a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/(
(n+1)^3), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):

```

generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/((n+1)^3), a(0)=0, a(1)=Pi, a(2)=2 }:

name_of_function := test9a:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=0, a(1)=0, a(2)=1 }:

name_of_function := test10a:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES,

name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi, a(4)=1, a(6)=2 }:

name_of_function := test11a:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1 }:

name_of_function := test0b:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=Pi }:

name_of_function := test1b:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec,

a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=1 }:

name_of_function := test2b:

name_of_file := sprintf("%a.c", name_of_function):

printf("\n\n\n***** Implimentation de %s *****\n",

name_of_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi }:


```

name_of_function := test3b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*****
Implementation de %s *****/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

```

```

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10b:
name_of_file
:= sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=Pi, a(4)=1, a(6)=2 }:
name_of_function := test11b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/(n+1)^3, a(0)=1 }:
name_of_function := test0c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/(n+1)^3
), a(0)=Pi }:
name_of_function := test1c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=1 }:
name_of_function := test2c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=Pi }:
name_of_function := test3c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function,
name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/(n+1)^3, a(0)=1, a(1)=2 }:
name_of_function := test4c:

```

```

name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0 }:
name_of_function := test5c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec,
a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0 }:
name_of_function := test7c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n*****
Implmentation de %s *****\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implmentation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

```

```

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/(n+2), a(0)=Pi, a(4)=1, a(6)=2 };
name_of_function := test11c;
name_of_file := sprintf("%a.c", name_of_function);
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file);
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f);

```

1.80 libdeflate 1.7-1

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1.81 xauth 1.1-1

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1.82 build-essential 12.9

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1.83 perl 5.32.1-4+deb11u2

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*

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```
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```

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```

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```

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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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That's all there is to it!

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1.89 libalgorithm-diff-xs-perl 0.04-6+b1

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1.90 libfile-fcntllock-perl 0.22-3+b7

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Christoph M. Becker

Colin Watson
Dimitar Dobrev
edink
Gilles Espinasse
guenter
Kornel Lesiski
kshepherd
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Tim Toohey
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Vincent Bernat

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.95 libpkit 0.23.22-1

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

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```
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```

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```
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```

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

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1.103 libsemanage-common 3.1-1

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Version 2.1, February 1999

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1.104 cyrus-sasl 2.1.27+dfsg-2.1+deb11u1

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 * Rob Earhart
 * Rob Siemborski
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*/

/* CMU libsasl

* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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1.105 sysv-init 2.96-7+deb11u1

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Original Authors

Peter Mattis <petm@xcf.berkeley.edu>
Spencer Kimball <spencer@xcf.berkeley.edu>
Josh MacDonald <jmacd@xcf.berkeley.edu>

Please do not mail the original authors asking questions about this version of GLib.

GLib Team

Shawn T. Amundson <amundson@gimp.org>
Jeff Garzik <jgarzik@pobox.com>
Raja R Harinath <harinath@cs.umn.edu>
Tim Janik <timj@gtk.org>
Elliot Lee <sopwith@redhat.com>
Tor Lillqvist <tml@iki.fi>
Paolo Molaro <lupus@debian.org>
Havoc Pennington <hp@pobox.com>
Manish Singh <yosh@gimp.org>
Owen Taylor <otaylor@gtk.org>
Sebastian Wilhelmi <wilhelmi@ira.uka.de>

The random number generator "Mersenne Twister", which is used by GLib, was developed and originally coded by:

Makoto Matsumoto <matumoto@math.keio.ac.jp>
Takuji
Nishimura <nisimura@math.keio.ac.jp>

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```
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```

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1.109 libnsl 2.31

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```

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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
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changes to the files to reflect this.

Regards, Juan

MA

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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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- * 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>
- * Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

1.111 libffi 3.4.2-4

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```
# COPYING.other          -*- org -*-  
#+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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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

```
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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1.115 libxslt 1.1.35-r0

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1.116 zlib 1.2.11.dfsg-0ubuntu2.2

1.116.1 Available under license :

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-
- * Added ZIP64 support for unzip (by Even Rouault)
 - * Added ZIP64 support for zip (by Mathias Svensson)
 - * Reverted some changed that Even Rouault did.
 - * Bunch of patches received from Guller Vollant that he received for MiniZip from various users.
 - * Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
 - * Added BZIP Compress method for zip
 - * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.

Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

Notes.

* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/MiniZip64_info.txt

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/* trees.c -- output deflated data using Huffman coding

* Copyright (C) 1995-2017 Jean-loup Gailly

* detect_data_type() function provided freely by Cosmin Truta, 2006

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/trees.c
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```
/* deflate.h -- internal compression state
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* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

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* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.h
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```
/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

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```
/* gzappend -- command to append to a gzip file
```

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-

1.2.11/examples/gzappend.c

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/* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-

1.2.11/contrib/minizip/zip.h

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```
/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzread.c
```

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Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage of the official DLL build of zlib, named ZLIB1.DLL. If you have general questions about zlib, you should see the file "FAQ" found in the zlib distribution, or at the following location:

http://www.gzip.org/zlib/zlib_faq.html

1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.
(Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib web site at:

<http://www.zlib.net/>

Applications that link to ZLIB1.DLL can rely on the following specification:

- * The exported symbols are exclusively defined in the source files "zlib.h" and "zlib.def", found in an official zlib source distribution.
- * The symbols are exported by name, not by ordinal.
- * The exported names are undecorated.
- * The calling convention of functions is "C" (CDECL).
- * The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled test programs that must run with a valid build of ZLIB1.DLL. It is recommended to download the prebuilt DLL from the zlib web site, instead of building it yourself, to avoid potential incompatibilities that could be introduced by your compiler and build settings. If you do build the DLL yourself, please make sure that it complies with all the above requirements, and it runs with the precompiled test programs, bundled with the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL, please use a different file name.

2. Why did you change the name of the DLL to ZLIB1.DLL?

What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required compilation settings that were incompatible to those used by

a static build. The DLL settings were supposed to be enabled by defining the macro ZLIB_DLL, before including "zlib.h". Incorrect handling of this macro was silently accepted at build time, resulting in two major problems:

* ZLIB_DLL was missing from the old makefile. When building the DLL, not all people added it to the build options. In consequence, incompatible incarnations of ZLIB.DLL started to circulate around the net.

* When switching from using the static library to using the DLL, applications had to define the ZLIB_DLL macro and to recompile all the sources that contained calls to zlib functions. Failure to do so resulted in creating binaries that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make a binary-incompatible change in the DLL interface, in order to remove the dependency on the ZLIB_DLL macro, and to release the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major zlib version number. We hope that we will not have to break the binary compatibility again, at least not as long as the zlib-1.x series will last.

There is still a ZLIB_DLL macro, that can trigger a more efficient build and use of the DLL, but compatibility no longer depends on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention keywords to the macros ZEXPORT and ZEXPORTVA. In practice, it depends on what you mean by "an old ZLIB.DLL", because the

old DLL exists in several mutually-incompatible versions. You have to find out first what kind of calling convention is being used in your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a "__declspec(dllexport)" attribute in the source files. You can do this in zlib by predefining the ZLIB_DLL macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling

convention. Why not use the STDCALL convention?
STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability, we use CDECL to refer to the convention triggered by the "__cdecl" keyword, STDCALL to refer to the convention triggered by "__stdcall", and FASTCALL to refer to the convention triggered by "__fastcall".)

- Most of the native Windows API functions (without varargs) use indeed the WINAPI convention (which translates to STDCALL in Win32), but the standard C functions use CDECL. If a user application is intrinsically tied to the Windows API (e.g. it calls native Windows API functions such as CreateFile()), sometimes it makes sense to decorate its own functions with WINAPI. But if ANSI C or POSIX portability is a goal (e.g. it calls standard C functions such as fopen()), it is not a sound decision to request the inclusion of <windows.h>, or to use non-ANSI constructs, for the sole purpose to make the user functions STDCALL-able.

The functionality offered by zlib is not in the category of "Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly faster than CDECL, and it works with variable-argument functions, just like CDECL. It is unfortunate that, in spite of using STDCALL in the Windows API, it is not the default convention used by the C compilers that run under Windows. The roots of the problem reside deep inside the unsafety of the K&R-style function prototypes, where the argument types are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention. Even if an explicit convention is hard-coded into the function prototypes inside C headers, problems may appear. The necessity to expose the convention in users' callbacks is one of these problems.

The calling convention issues are also important when using zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77), have C bindings implemented initially on Unix, and relying on the C calling convention. On the other hand, the pre-.NET versions of Microsoft Visual Basic require STDCALL, while Borland Delphi prefers, although

it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C programming language, we choose the default "C" convention. Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

9. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc.

Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via <windows.h> and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs' internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such as those provided by Borland, raises similar problems.

11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. Windows 95 is scarcely found nowadays, Microsoft ended its support a long time ago, and many recent applications from various vendors, including Microsoft, do not even run on it. Furthermore, no serious user should run Windows 95 without a proper update installed.

12. Why are you not linking ZLIB1.DLL to <<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using the DLL mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.

* Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it does not work properly with Microsoft's C++ libraries, it does not provide support for 64-bit file offsets, (and so on...), and Microsoft discontinued its support a long time ago.

* Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied with the Microsoft .NET platform, and Visual C++ 7.0/7.1, raises problems related to the status of ZLIB1.DLL as a system component. According to the Microsoft Knowledge Base article KB326922 "INFO: Redistribution of the Shared C Runtime Component in Visual C++ .NET", MSVCR70.DLL and MSVCR71.DLL are not supposed to function as system DLLs, because they may clash with MSVCRT.DLL. Instead, the application's installer is supposed to put these DLLs (if needed) in the application's private directory. If ZLIB1.DLL depends on a non-system runtime, it cannot function as a redistributable system component.

* Linking ZLIB1.DLL to non-Microsoft runtimes, such as Borland's, or Cygwin's, raises problems related to the reliable presence of these runtimes on Win32 systems. It's easier to let the DLL build of zlib up to the people who distribute these runtimes, and who may proceed as explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL, how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0 (Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base article KB326922 (see the previous answer), the C runtime that comes with the VC7 environment is no longer considered a system component. That is, it should not be assumed that this runtime exists, or may be installed in a system directory. Since ZLIB1.DLL is supposed to be a system component, it may not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL in VC7, you need the library of Visual C++ 6.0 or older. If you don't have this library at hand, it's probably best not to use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a way to build applications linked to a proper system runtime, from the Visual C++ environment. Until then, you have a couple of alternatives, such as linking zlib in statically. If your application requires dynamic linking, you may proceed as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial. You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (i.e. it's neither in the PATH, nor in the SYSTEM or SYSTEM32 directories). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code

that does not originate from the official zlib source code.
But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed with Borland Delphi and C++ Builder. The DLL build of VCL is a redistributable file, named VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO_GZCOMPRESS or NO_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete zlib functionality, as implemented in the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib web site. If you need something peculiar from this DLL, you can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run it with the test programs found in the DLL distribution. Running these test programs is not a guarantee of compliance, but a failure can imply a detected problem.

**

This document is written and maintained by
Cosmin Truta <cosmint@cs.ubbcluj.ro>

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/DLL_FAQ.txt

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The origin of this software must not be misrepresented; you must not
Altered source versions must be plainly marked as such, and must not be
This notice may not be removed or altered from any source distribution.

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.3

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

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.c
```

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

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/infcover.c
```

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

```
/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.cmakein
```

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.in
```

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h
```

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

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/Adler32.c
```

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gun.c
```

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

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

`/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/crc32.c`

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

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

`/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.h`

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

```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

`/opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.h`

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

```
/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.c

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

/* inftrees.c -- generate Huffman trees for efficient decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.c

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

/* zutil.h -- internal interface and configuration of the compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.h

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

/*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.h

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.c

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

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzclose.c

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

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.c

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

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.dj2

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.emx

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/Makefile.gcc

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/Makefile.emx

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/os2/Makefile.os2

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

/* gzlib.c -- zlib functions common to reading and writing gzip files

* Copyright (C) 2004-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzlib.c

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

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

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

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

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

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.h

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

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zran.c

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

/* example.c -- usage example of the zlib compression library

* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/example.c

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

/* infback.c -- inflate using a call-back interface

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/infback.c

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

/* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzjoin.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the

precompiled DLL are found in the zlib web site at <http://zlib.net/> .

3. Where can I get a Visual Basic interface to zlib?

See

* <http://marknelson.us/1997/01/01/zlib-engine/>

* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*`

functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any

difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by

inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always

works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since

they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/FAQ
```

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

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
```

```
Not copyrighted -- provided to the public domain
```

```
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zpipe.c
```

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

Not copyrighted -- provided to the public domain

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zlib_how.html
```

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

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/minigzip.c
No license file was found, but licenses were detected in source scan.
```

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/uncompr.c
No license file was found, but licenses were detected in source scan.
```

```
/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
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Changes

See header of unzip64.c

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.h

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

/* inflate.h -- internal inflate state definition

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.h

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

/* gzlog.h

Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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3. This notice may not be removed or altered from any source

distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.h

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

/* gzwrite.c -- zlib functions for writing gzip files

* Copyright (C) 2004-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzwrite.c

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

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/> .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/README
No license file was found, but licenses were detected in source scan.

```
/* inflate.c -- zlib decompression
 * Copyright (C) 1995-2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.c
No license file was found, but licenses were detected in source scan.
```

```
/* inffast.c -- fast decoding
 * Copyright (C) 1995-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.c
No license file was found, but licenses were detected in source scan.
```

```
/* gzguts.h -- zlib internal header definitions for gz* operations
 * Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzguts.h
No license file was found, but licenses were detected in source scan.
```

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). Two compiled examples are distributed in this package, `example` and `minigzip`. The `example_d` and `minigzip_d` flavors validate that the `zlib1.dll` file is working correctly.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org). The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read `DLL_FAQ.txt`, and the the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Manifest:

The package zlib-1.2.11-win32-x86.zip will contain the following files:

README-WIN32.txt This document
ChangeLog Changes since previous zlib packages
DLL_FAQ.txt Frequently asked questions about zlib1.dll
zlib.3.pdf Documentation of this library in Adobe Acrobat format

example.exe A statically-bound example (using zlib.lib, not the dll)
example.pdb Symbolic information for debugging example.exe

example_d.exe A zlib1.dll bound example (using zdll.lib)
example_d.pdb Symbolic information for debugging example_d.exe

minigzip.exe A statically-bound test program (using zlib.lib, not the dll)
minigzip.pdb Symbolic information for debugging minigzip.exe

minigzip_d.exe A zlib1.dll bound test program (using zdll.lib)
minigzip_d.pdb Symbolic information for debugging minigzip_d.exe

zlib.h
Install these files into the compilers' INCLUDE path to
zconf.h compile programs which use zlib.lib or zdll.lib

zdll.lib Install these files into the compilers' LIB path if linking
zdll.exp a compiled program to the zlib1.dll binary

zlib.lib Install these files into the compilers' LIB path to link zlib
zlib.pdb into compiled programs, without zlib1.dll runtime dependency
(zlib.pdb provides debugging info to the compile time linker)

zlib1.dll Install this binary shared library into the system PATH, or
the program's runtime directory (where the .exe resides)
zlib1.pdb Install in the same directory as zlib1.dll, in order to debug
an application crash using WinDbg or similar tools.

All .pdb files above are entirely optional, but are very useful to a developer attempting to diagnose program misbehavior or a crash. Many additional important files for developers can be found in the zlib127.zip source package available from <http://zlib.net/> - review that package's README file for details.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate **not** receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/README-WIN32.txt
```

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

```
/* fitblk.c: example of fitting compressed output to a specified size  
Not copyrighted -- provided to the public domain  
Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/fitblk.c
```

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

```
/*
```

```
* gzlog.c
```

```
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
```

```
* For conditions of distribution and use, see copyright notice in gzlog.h
```

```
* version 2.2, 14 Aug 2012
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1394173797_1660873286.0583425/0/zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.c
```

1.117 zlib 1.2.11.dfsg-2+deb11u2

1.117.1 Available under license :

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

```
/* trees.c -- output deflated data using Huffman coding
```

```
* Copyright (C) 1995-2017 Jean-loup Gailly
```

```
* detect_data_type() function provided freely by Cosmin Truta, 2006
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

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

```
/*
```

```
* gzlog.c
```

```
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
```

```
* For conditions of distribution and use, see copyright notice in gzlog.h
```

```
* version 2.2, 14 Aug 2012
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
```

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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-
- * Added ZIP64 support for unzip (by Even Rouault)
 - * Added ZIP64 support for zip (by Mathias Svensson)
 - * Reverted some changed that Even Rouault did.
 - * Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
 - * Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
 - * Added BZIP Compress method for zip
 - * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
Zip File specification

Notes.

- * To be able to use BZip compression method in

zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

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

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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

/* Adler32.c -- compute the Adler-32 checksum of a data stream

* Copyright (C) 1995-2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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

/* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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

/*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

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

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/* gzwrite.c -- zlib functions for writing gzip files

* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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

/* inffast.h -- header to use inffast.c

* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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

/* deflate.h -- internal compression state

* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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

/* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/* zconf.h -- configuration of the zlib compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

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

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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

/* inftrees.c -- generate Huffman trees for efficient decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

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

/* inftrees.h -- header to use inftrees.c

* Copyright (C) 1995-2005, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

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

/* inflate.c -- zlib decompression

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

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

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
```

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
```

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

Not copyrighted -- provided to the public domain

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
```

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

```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
```

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

```
/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see

<http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.
```

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.
```

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file `win32/DLL_FAQ.txt` in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

* <http://marknelson.us/1997/01/01/zlib-engine/>

* `win32/DLL_FAQ.txt` in the zlib distribution

4. `compress()` returns `Z_BUF_ERROR`.

Make sure that before the call of `compress()`, the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`.

Before making the call, make sure that `avail_in` and `avail_out` are not zero.

When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` . Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/` .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org` . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
```

```
./configure  
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:  
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers

and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled `zlib` library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will `zlib` work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will `zlib` work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will `zlib` decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and `zlib`. However, you can look in `zlib's contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does `zlib` work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of `zlib 1.1.4` to MVS, but those links no longer work. If you know of recent, successful applications of `zlib` on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to

understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,

use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

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* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/* minigzip.c -- simulate gzip using the zlib compression library

* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

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*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/test/minigzip.c

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/* inflate.h -- internal inflate state definition

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*/

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* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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

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

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

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

1.118 packaging 21.3

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1.119 defusedxml 0.7.1

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1.120 bzip2 1.0.8-4

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1.121 selinux 3.1-3

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1.122 libsemanage-common 3.1-1+b2

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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1.123 util-linux 2.36.1-8+deb11u1

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NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
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5	7936	12799	4864	2.4M		
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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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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```

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under certain conditions; type `show c'  
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```

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```
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```

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

Ty Coon, President of Vice

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1.126 cpp 1.190

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1.127 bcrypt 4.0.1

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1.128 python-setuptools 65.5.0

1.128.1 Available under license :

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1.129 zlib 1.2.13

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1.130 expat 2.2.10-2+deb11u5

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1.131 libtasn 4.16.0-2+deb11u1

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

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1.134 scowl 2019.10.06-1

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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For details see https://shiftright.org/papers/vector_aes/ and

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

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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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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The

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1.137 git 2.30.2-1+deb11u2

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Centrum Wiskunde & Informatica
P.O. Box 94079, 1090 GB Amsterdam, Netherlands
marc@marc-stevens.nl

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1.138 python-dotenv 1.0.0

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1.139 zlib 1.2.7-21.el7_9

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1.140 bzip2 1.0.6-13.el7

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1.141 sed 4.7-1

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1.142 libtiff 4.2.0-1+deb11u4

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1.143 pcre 10.36-2+deb11u1

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1.144 public-suffix 20220811.1734-0+deb11u1

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1.146 wheel 0.40.0

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Both were inspired by Twisted's

[FancyEqMixin](<https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html>)

but both are implemented using class decorators because [subclassing is bad for you](<https://www.youtube.com/watch?v=3MNVP9-hgIc>), McKay?

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1.148 python-pip 23.1.2

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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 SSLCertificateFile.#

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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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	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF		yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
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1.149 grep 3.6-1+deb11u1

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1.150 debian-archive-keyring

2021.1.1+deb11u1

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1.152 python 3.11.4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.153 libalgorithm-diff-perl 1.201-1

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abstract: unknown

author:

- unknown

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.46, CPAN::Meta::Converter version 2.150010'

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

version: '1.201'

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/META.yml

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

```
#!/usr/bin/perl -w
#
# `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.
#
# 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

getopts("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

```

```

Soldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

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 @@\n";

    # 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/^/$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"} - $low] =~ s/^/$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 ? $first : "$first,$length";
    return $range;
}
} # end 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
sub insert { return grep { $_->{"sign"} eq '+' } @{shift->{"changes"}}; }

} # end of package Block

```

Found in path(s):

```

* /opt/cola/permits/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/cdiff.pl

```

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\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( !$diff->Items(1) ) {
        printf "%da%d,%d\n",
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
            $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 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSIdx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

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

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
      DISCARD_A => \&callback2,
      DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
      DISCARD_A => \&callback2,
      DISCARD_B => \&callback3,
      CHANGE => \&callback4,
    },
    \&key_generator,
    @extra_args,
);

```

=head1 INTRODUCTION

(by
Mark-Jason Dominus)

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

a b c d e f g i j k r x y 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 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 x 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
```

=head1 USAGE

(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: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 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.

```
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

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

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

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

=head2 C<LCS_length>

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

```
=head2 C<LCSidx>
```

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

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

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );  
my @list1 = @seq1[ @idx1 ];  
my @list2 = @seq2[ @idx2 ];  
my @list3 = LCS( \@seq1, \@seq2 );
```

```
=head2 C<new>
```

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

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    = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs|$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.

=over 4

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

`C<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:

```
$copy = $diff->Copy();  
$copy->Base( 0 );
```

```
$copy = $diff->Copy(undef,0);
```

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

```
$copy = $diff->Copy(0);
```

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

```
=item C<Diff>
```

```
$bits = $obj->Diff();
```

`C<Diff>` 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:

```
=over 4
```

```
=item Z<>3
```

C<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 Z<>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 Z<>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 Z<>0
```

This means that the items in this hunk are the same in both sequences. 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 `I<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:

```
/(?-?\d+)?(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)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=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>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # 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>.

```
$prep = prepare( \@seq1, \&keyGen );

for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $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 );
$diffs_ref = 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 I< 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 C<diff> for the following two sequences:

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

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],
```



```

    [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ],
)

```

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

C<diff> 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<sdiff>
```

```

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

```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```

same      same
before |  after
old      <  -
-        >  new

```

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 r s t
```

results in

```
( [ '-', 'a', " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c',
'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)
```

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:

```
my @a = qw( a b c e h 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
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:

```

# 1st pair 2nd pair
# of indices of indices
@list1 = @a[ ${diff[0]} .. ${diff[2]}-1 ];
@list2 = @b[ ${diff[1]} .. ${diff[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:

```
@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:

```
@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:

```
@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:

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

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:

```
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.

=head2 C<traverse_balanced>

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:

```

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:

```

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

```

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:

```

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

```

`$person4` and `$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:

```

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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under the same terms as Perl.

=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

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
<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/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/lib/Algorithm/Diff.pm
```

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```
#!/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/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/diff.pl
```

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```
# 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/1715453514_1686310426.8819616/0/libalgorithm-diff-perl-1-201-orig-1-tar-gz/Algorithm-Diff-1.201/bin/diffnew.pl
```

1.154 python 3.11.4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.156 python-lxml 4.9.3

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1.157 jsonschema 4.18.3

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1.159 jsonschema-specifications 2023.7.1

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1.160 python-certifi 2023.7.22

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<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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1.161 paramiko 3.3.1

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Any

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1.163 dotenv-linter 0.4.0

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1.164 click-default-group 1.2.4

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1.165 referencing 0.30.2

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1.166 click 8.1.7

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```
=====  
click-contrib  
=====
```

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The click-contrib_ GitHub organization exists as a place to collect third-party packages that extend Click's features. It is also meant to ease the effort of searching for such extensions.

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1.167 kerberos 1.18.3-6+deb11u4

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.170 libwebp 0.6.1-2.1+deb11u2

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1.171 jsonschema 4.19.1

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1.172 cffi 1.16.0

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1.173 libbacktrace 10.2.1-6

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
----------	------------------	-----------------	---------------

Ada

	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1,	
libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3

- libobjc
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- The libgnat-10 Ada support library and libgnat-util10 library.
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Written by Tobias Burnus <burnus@net-b.de>

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libquadmath/math:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

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ldexpq.c:

- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c,
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Cephes Math Library Release 2.2: January, 1991

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Adapted for glibc November, 2001

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D:

gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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gcc/m2/gm2-libiberty:

gcc/m2/mc-boot/:

gcc/m2/mc-boot-ch/:

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Library module defined by the International Standard Information technology - programming languages BS ISO/IEC 10514-1:1996E Part 1: Modula-2, Base Language.

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Upstream Authors:

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Jeff Johnston <jjohnstn@redhat.com>

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Arnaud LE HORS BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)

Internet: lehors@sophia.inria.fr

Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE

Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
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man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c

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```

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1.182 ncurses 6.2+20201114-2+deb11u2

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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 \$
Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

Files: *
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-- vile: txtmode file-encoding=utf-8

1.183 openssl 1.1.1w-0+deb11u1

1.183.1 Available under license :

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The End

1.184 base-files 11.1+deb11u8

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Version 3, 29 June 2007

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The End

1.185 linux-libc-dev 5.10.197-1

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

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

*
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * <http://www.hypermall.com/>
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather
 lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
 *
 *
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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1.186 openssh 8.4p1-5+deb11u2

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* @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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1.188 rpds-py 0.10.6

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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```
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```

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```
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```

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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@(#) \$RCSfile: certdata.txt,v

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.193 python 3.11.1

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"

  # Read the contents of the file into a variable
  local raw_license_text=$(<"$FILE")

  # Convert to lowercase
  local lowercase_license_text="{raw_license_text,}"

  # Remove anything before the beginning of the license
  local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

  # Replace line breaks (Windows or Linux) with a single space
  local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")
```

```

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
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```
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```

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1.201 libiconv 2.31-13+deb11u7

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- a) Accompany

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

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

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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The End

1.204 ncurses 6.2-8.20210508.fc35

1.204.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

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1.212 nghttp2 1.43.0-1+deb11u1

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Upstream-Name: nghttp2

Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>

Source: <https://github.com/tatsuhiro-t/nghttp2>

Files: *

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* /opt/cola/permits/1897596079_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/NodesExample2.java
* /opt/cola/permits/1897596079_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDecorator.java
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- Contributors -

Andrew Svetlov

Martijn Pieters

Nikolay Kim

1.216 pynacl 1.5.0

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1.217 async-timeout 4.0.3

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1.218 typing-extensions 4.8.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see <https://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 <https://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 <https://opensource.org> for
the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2	1.2	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.219 multidict 6.0.4

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1.220 importlib-metadata 4.11.1

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1.221 pycparser 2.21

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1.223 asynctest 0.13.0

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